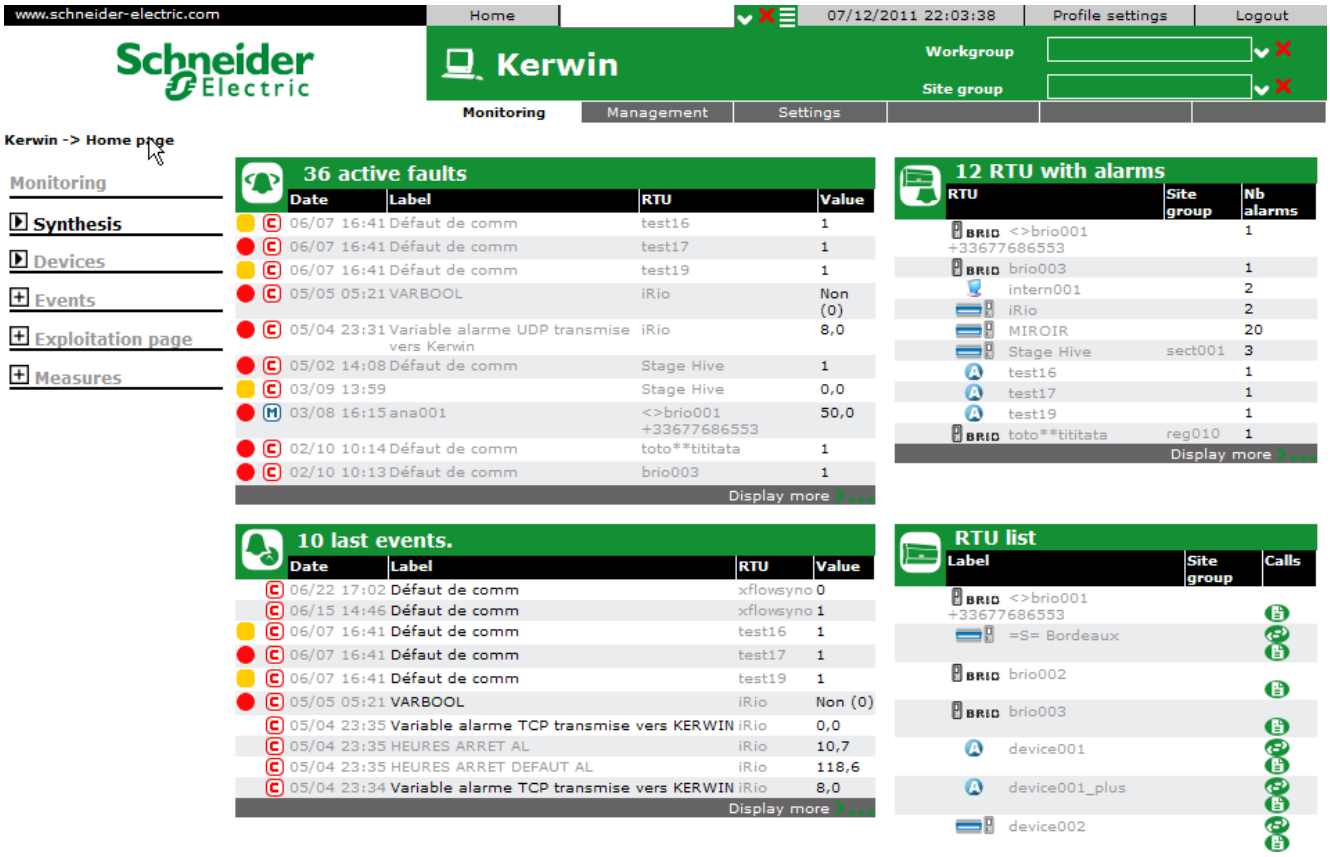
Telemetry Solutions

Kerweb

Web Interface for Kerwin Telemetry supervisor

User Manual



Schneider Electric

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1 General description

1.1 Description

This documentation aims to provide the necessary information for basic use of the Kerwin Web interface. It describes the steps for browsing and simple parameters setup.
Note: This manual describes the web module of Kerwin supervision software version 6. Some differences may occur if you are using a former version of Kerwin software.

1.2 Web browsers

The operation of the Web interface is optimal with the following Web browsers:

- Internet Explorer version 7.
- Internet Explorer version 8.

JavaScript must be activated. No plug-in (flash memory, Java, etc.) is necessary.

For PDAs…

- There is a degraded interface optimized for slow networks not using scripts or images but offering only browsing. The login screen corresponds to the /lite.htm page of the server root.

2 Installation

2.1 Installation pack

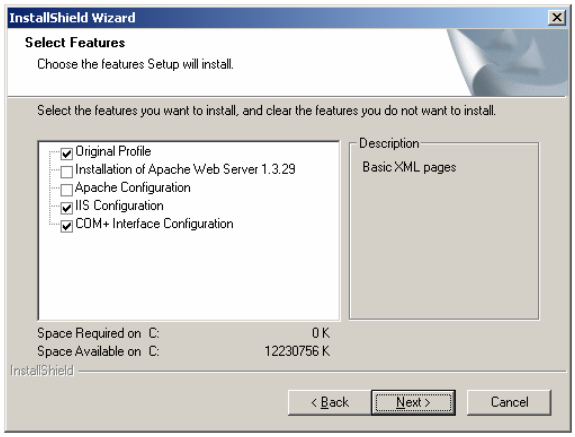
The Kerwin CD

This CD contains:

- The Kerwin installation program.
- The Kerweb2 installation program.

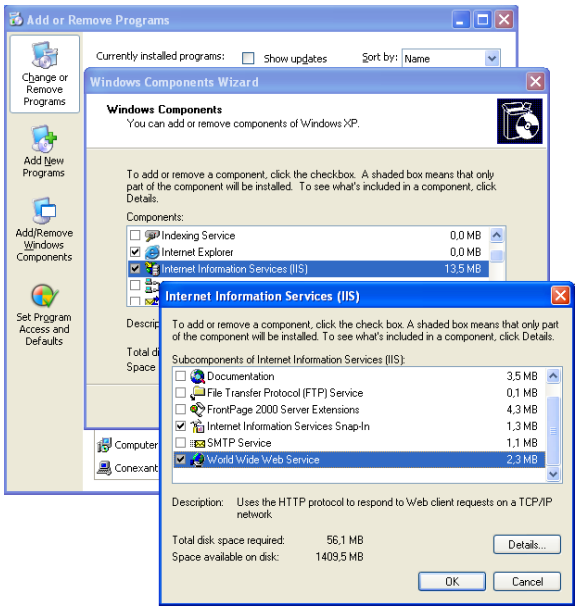
The dongle registration USB key

- This key is compulsory to run the Kerweb application.


InstallShield Wizard
Select Features
Choose the features Setup will install.
Select the features you want to install, and clear the features you do not want to install.
Original Profile
Installation of Apache Web Server 1.3.29
Apache Configuration
IIS Configuration
COM+ Interface Configuration
Description
Basic XML pages
Space Required on C: 0 K
Space Available on C: 12230756 K
InstallShield
< Back
Next >
Cancel

2.2 Procedure

Installation: Installation with the following options:
1. Original Profile.
2. IIS Configuration.
3. COM+ Interface Configuration (optional).


Add or Remove Programs
Change or Remove Programs
Add New Programs
Add/Remove Windows Components
Set Program Access and Defaults
Currently installed programs:
Show updates
Sort by: Name
Windows Components Wizard
Windows Components
You can add or remove components of Windows XP.
To add or remove a component, click the checkbox. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Components:
Indexing Service 0,0 MB
Internet Explorer 0,0 MB
Internet Information Services (IIS) 13,5 MB
Internet Information Services (IIS)
To add or remove a component, click the check box. A shaded box means that only part of the component will be installed. To see what's included in a component, click Details.
Subcomponents of Internet Information Services (IIS):
Documentation 3,5 MB
File Transfer Protocol (FTP) Service 0,1 MB
FrontPage 2000 Server Extensions 4,3 MB
Internet Information Services Snap-In 1,3 MB
SMTP Service 1,1 MB
World Wide Web Service 2,3 MB
Description: Uses the HTTP protocol to respond to Web client requests on a TCP/IP network
Total disk space required: 56,1 MB
Space available on disk: 1409,5 MB
Details...
OK
Cancel

Note:
Preferably use the Microsoft IIS Web server. IIS is installed by default on Windows Server Pro systems. For other Windows installations, IIS may not be installed. However, it is supplied on the Windows installation CD provided with the PC.
To check whether the IIS server is installed or, failing that, to install it from the CD:

- Go to the Control Panel
- Click on Add/Remove programs
- Click on Add/Remove Windows components
- Check that "Internet Information Services (IIS)" is ticked, then by clicking on Detail that "World Wide Web Service" is ticked
    - If this is not the case, insert the Windows CD and install IIS after ticking "World Wide Web Service"

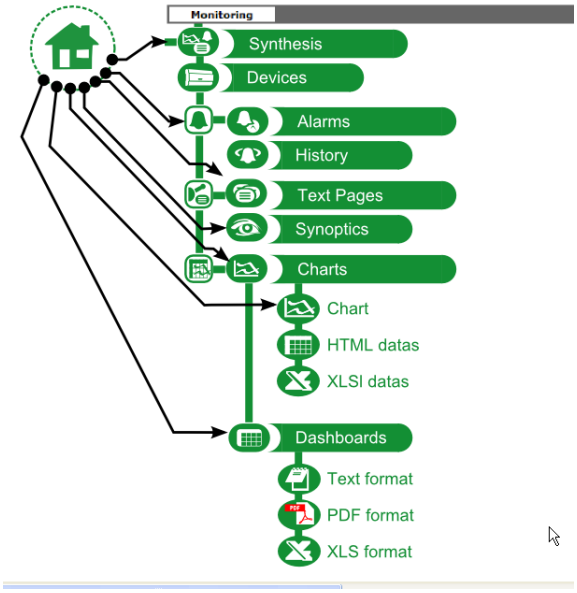
3 Login

3.1 Connection

- To log in to the site, simply enter the user name and the associated password, matching the case.
- When the check box is active at the time of the login request, the user name is stored in memory and automatically entered on this page at subsequent visits.

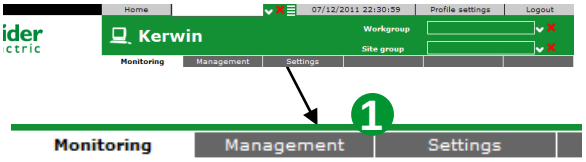
It is possible to choose a language for the home page. This preference is stored on the user's system. It has no impact on the language used when browsing on the site itself, which is defined by the user preferences (dependent on the Login). However, the language chosen on the home page is used for the error pages.

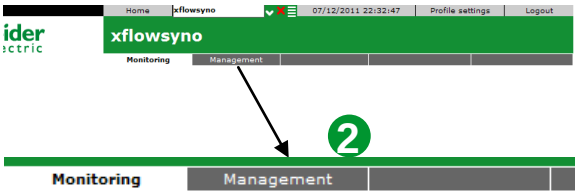
3.2 Home page



The home page can be personalized by means of the user preferences. Each user can choose as home page one of the following pages:

- Synthesis page (by default).
- Synoptics page (the list of synoptics or the synoptic defined by default).
- List of curves.
- List of dashboards or dashboard defined by default.
- List of curves or curve defined by default.
- Alarms in progress.
- List of exploitation pages.





4 Main menu

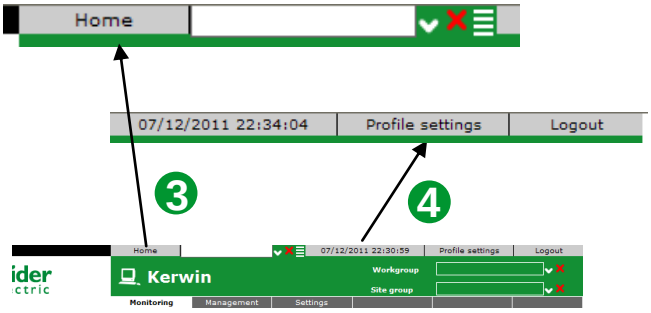
4.1 General mode / Site mode

On opening the site, the main band displays as title the name of your Kerwin application and, below, the menu corresponding to general mode. 1

These icons, preceding the title, indicate that you are in general mode and that a filter by workgroup or by sector may be applied.

When a site is selected, the band displays as title the name of the site to which you obtain access and the menu corresponding to "site" mode 2

4.2 Home, Selection of a site



The toolbar 3 , available permanently, allows you to go back to the home page (Home button) by automatically selecting general mode. A drop-down list allows you to select a site and hence switch to "site" mode. This list has options helping you choose the wanted site. Its operation is described in the "dynamic list" section.

4.3 Server time, preferences and logout

The toolbar 4 , available permanently, offers the following functionalities:

4.3.1 Server time

Display of the server time corrected by the user's time zone. For optimal operation, this time should correspond to the time of the client system.

4.3.2 Preferences

The preferences page allows users to set the parameters for display of their profile. The administrator can also set the preferences by default, or, if he belongs to a workgroup or uses the workgroup filter, the preferences of those groups. When users have not set their preferences, they benefit from the preferences of their group, or, if the latter has not been set either, the default preferences.

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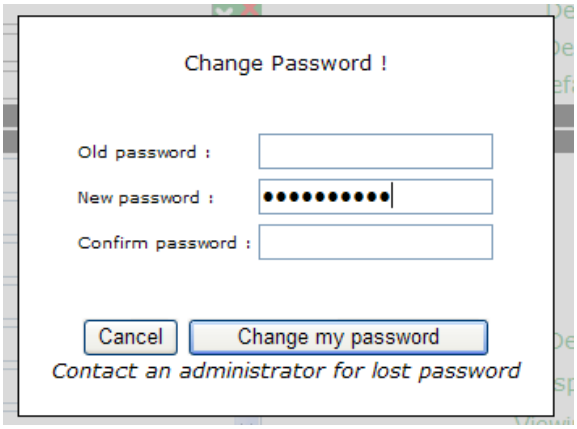
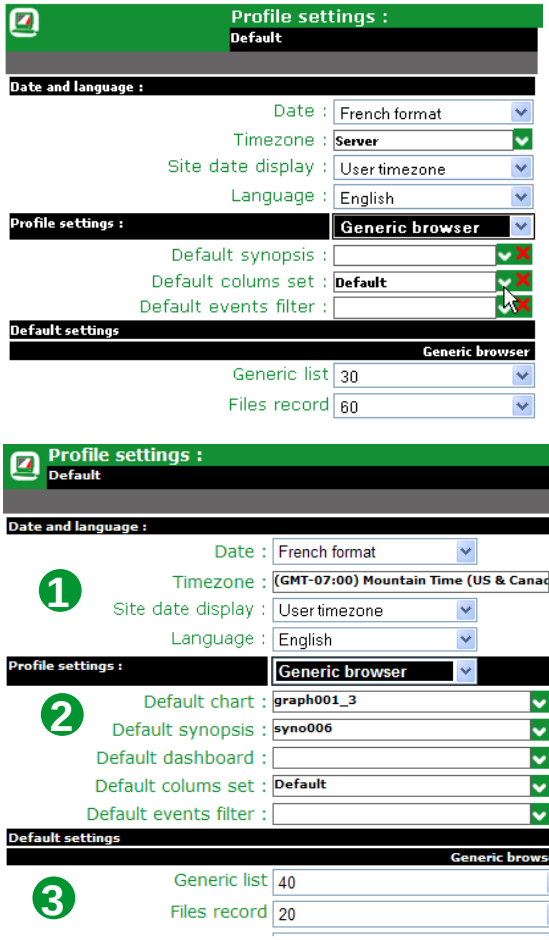
4.3.2.1 Change of password



The preferences page allows users to change their password; it is not possible for an administrator to change the password of another user in this page (see user management). To make this change you must activate the Modifier mon mot de passe button. This gives access to a dialogue box allowing you to enter the password. It is compulsory to observe the following requirements:
The password to be replaced must be specified without error.
The new password must not exceed 10 characters.
The new password cannot be blank.
To prevent any data entry error, the new password must be confirmed identically.



4.3.2.2 Management of user preferences

From the preferences page, the user can change the fields that will validate the display of his profile.

For a super-user, the preferences are displayed in two columns. The left-hand column can be used to set the default preferences, which will be applied to all the users not yet having preferences. If the super-user filters by a workgroup or is himself restricted to a workgroup, the left-hand column can be used to set the preferences of the workgroup, which will be applied to all the users forming part of the workgroup and not yet having preferences. Lastly, the super-user can select any user forming part of his workgroup or the workgroup filtered to configure in the left-hand column the preferences of the selected user's workgroup, and in the right-hand column the preferences of the selected user.

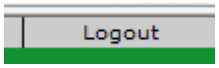
1 A first "regional settings" section allows you to define your date format (French day/month, or US English month/day), your time zone, and lastly the language in which your pages will be displayed. The user's time zone has an impact on the alarm reception display and the server time display. The site display option allows you either to select “User timezone” (default value) to display the site date in the same time zone as all other dates of the application using the configured time zone, or to select “Site timezone” to display the data with the time zone of the corresponding site.

2 A second section allows the user to define his preferred curve, synoptic, dashboard, columns selection or event filter. When a curve, synoptic or dashboard is to appear on the site without specifying its ID, it is this preferred element that is displayed. This is the case, for example, when one of these elements is chosen for the home page. The events are displayed with this event filter and columns selection. These preferences can be defined differently for the standard profile and the profile “lite”).

3 The third section allows you to define your display preferences for the standard display and for display on a small screen.

- **Home page:** Allows you to define your home page. For the curve, synoptic page and dashboard options, the preferred elements will be displayed on the home page.
- **Menu:** Allows the profile to be displayed with the menu or without a menu. The absence of a menu is appropriate for light profiles, having access only to the home page and its derivatives.
- **Generic lists:** Here you can specify the number of lines displayed for each screen of the list pages. It is recommended to adapt this number to the display capacity of the entire list depending on the size of your screen.
- **Number of records for files:** Ditto, but concerns only the number of records in the event of display of a file's data in HTML format (i.e. in the Web page).
- **Number of records for files (xls format):** Ditto, but concerns only the number of records in the event of display of a file's data in XLS format.
- **Events list:** Ditto, but concerns only the number of events displayed in the event history and events in progress pages.
- **Default depth of curves:** Defines the predefined value of the depth of the chart when adding a curve. This value is also replicated for the depth of a chart upon the display of an automatic curve.
- **Display of serial number:** Allows the serial number of the RTUs to be displayed in the pages of list of sites or site management with its filtering capacity.
- **Display of alarm level:** Allows display of the alarm level in its numeric form (level 0-255) or in conventional form (critical, minor or indication).
- **Display transmitted name:** Allows the transmitted name of the variables in the page of list of variables.

4.3.3 Logout



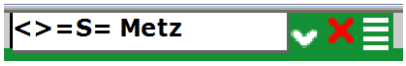
The use of this functionality should be preferred for closing the browser, because it closes the session and prevents another user from obtaining access to that session without having the login codes.

5 General principles of browsing

5.1 Dynamic lists

The dynamic lists replace, where applicable, the conventional lists of your browser. Options allow you to find the element sought in the list more easily.

5.1.1 The data entry field



The data entry field <>=S= Metz allows you to enter the first characters of the name sought. If one or more names correspond to this entry, a list opens, proposing to you the corresponding options. You can then select an element using the mouse pointer or by browsing with the ↑ and ↓ keys. The Enter key confirms the highlighted option, while the "Escape" key closes the options list again. If the list corresponding to the text entered is larger than the space reserved for it, navigation buttons allowing you to browse through it appear . You can also use the "Next Page" and "Previous Page" keys for this purpose. Finally, this data entry field accepts Windows wild cards. You can therefore use the "*" character to replace part of the name, or the "?" character to replace a letter. The "foo" search will give all elements whose name begins with "foo", while the "*foo" search will give all elements whose name contains “foo".

5.1.2 Opening the list

The button allows you to open the list: if a name is selected, it remains present in the text field but has no influence on the list. The list is therefore opened without filtering (equivalent to filter "*"). If the total number of elements is large, a browse through the list will also be proposed. The entry of characters in the text field will activate filtering again.

5.1.3 Deletion of an element

When the field does not impose the choice of an element, the button is present in the component. If an element is selected, pressing this button causes deletion of the selection. The form can therefore be sent with a null value for the corresponding choice.

5.1.4 Access to the detailed list

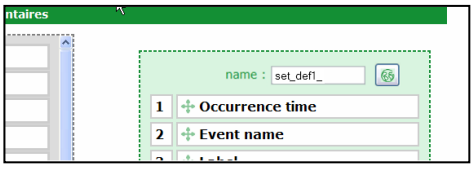
When the button is present, this indicates that a page containing a corresponding list and containing more filtering details or possibilities is available. Pressing this button opens this list page; the selection of a name in this list therefore causes the same action as the selection of an element in the initial list.

5.1.5 Width of lists

When the names of the list elements are clipped by an excessively small list size, It is thus possible to see the full string by passing over or selecting the element.

5.1 Translatable object

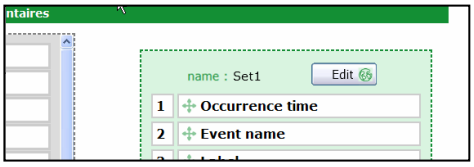
Some objects are able to be edited with more than one language. With this feature, the object will be displayed in the user's language. Besides the field, the buttons Edit or indicates the possibility of translation.



5.1.1 If no translations are defined for the object

If the object property has no translation, the default text is displayed and is directly editable.
A translation language button allows opening a translation dialog-box to define translations. This button has a tooltip “Handle translations”.

On press, the dialog-box is opened.



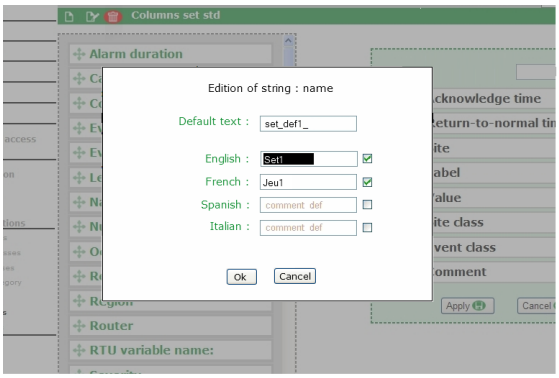
5.1.2 If translations are already defined for the object

If the object property name has at least one translation, the text displayed for the field is:

- The text matching the current user language if it exists.
- The default text if no translation exists for the current user language.

The displayed text will not be directly editable.
A button allows changing or translating the text. This button has a tooltip “Handle translations”.

On press, the dialog-box is opened



5.1.3 Edition of a translatable property

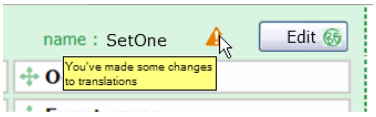
The dialog-box displays the default text and all translations.

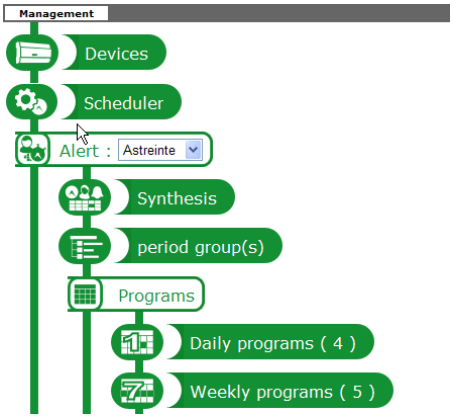
The input used to display the text on the previous page is focused.

The user is able to change the default text, set translations or deactivate some. If the checkbox is unchecked, the default text will be used for the deactivated language.
If the checkbox is checked again, the old value is automatically reset on the field.

When the dialog box is closed with the “Ok” button, an icon is added to field in order to indicate that change.

This icon has a tooltip “You've made some changes to translations. Edit to see translations that will be saved.”

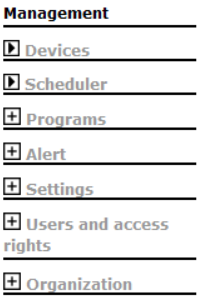




5.2 Title pages

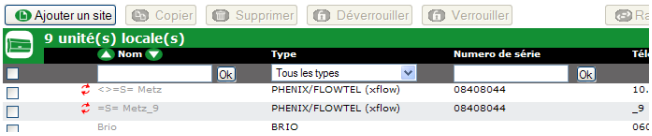
A selection in one of the menus of the general mode or the site mode causes opening of a title page which presents the architecture of the module to be explored. This menu contains the entire module, whose functionalities are then accessible by a single click. Its content can very depending on user rights, the elements already parameterized or not, or for the site mode depending on the type of RTU selected.

E.g. the "astreinte" (on call) label does not exist if the user does not have a reading right to "astreinte".
The "weekly program" and "yearly program" labels do not exist if no daily program has been parameterized for the selected workgroup.
The "Remote configuration" and "Remote configuration history" labels do not exist if the selected unit is not a BRIO type unit.



5.3 Navigation trees

A navigation tree is available throughout your session. It proposes a direct access to the functionalities corresponding to the explored menu. Its architecture and the links it consists of therefore correspond to those of the tree contained in the title page of this menu. The page currently being browsed corresponds to the element in bold in the menu. ⊟ and ⊞ buttons allow its exploration, while the ▶ buttons indicate a direct access to the specified module. Just like the tree of title pages, its content can vary depending on user rights, the elements already parameterized or not, or in the case of the site mode, depending on the type of RTU selected.



5.4 List pages

The list pages consist of a table and where applicable action buttons, filters and routing buttons. The various elements are arranged in rows. For each element, there is generally a hypertext link which can be used to access its detail page.

5.4.1 Action buttons

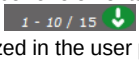
These buttons allow an action to be performed on the elements selected in the list. Each list element has a check box which confirms it as the target of the action. These buttons can be deactivated depending on the context:

- No element selected; for an action which requires at least one target element.
- More than one element selected; for an action which does not handle several elements.
- Wrong type; for an action which cannot be performed with a selection containing at least one element of an incompatible type.

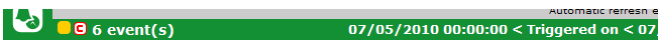
Example: the Add button is generally always active, the Change button is active for ONE element selected, the Delete button is active for at least one element selected, and the Read variable button is deactivated if at least one BRIO type unit is selected.

5.4.2 Title bar

The title bar indicates the total number of elements. If this number is greater than the displayable number of list elements, then a button appears allowing the remainder of the list to be displayed on another page.

Alongside this button is shown the total number of elements and the numbers of the first and last ones displayed. 

This number can be viewed and parameterized in the user preferences.
This title bar can also contain information on list filtering.



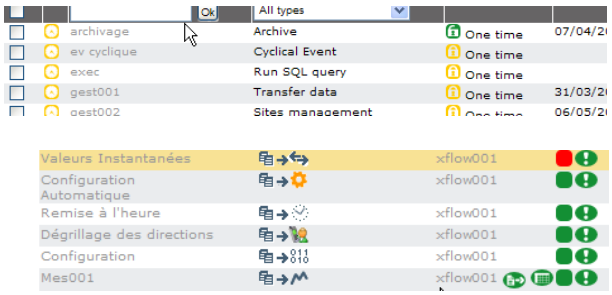
5.4.3 Column headings

These headings display the field name and allow sorting to be performed for some of them. The current sort operation is indicated by a square white label. The green buttons allow this sort operation to be altered.

5.4.4 Filter bar

This bar makes it possible to display only the list elements that match certain criteria. These filters are of three types.
Selections make it possible to choose a particular category. A change of selection automatically opens the page with the corresponding data.
Date fields are sometimes available to search for elements included in a time interval. A calendar is available as data entry aid. A change in the field does not entail reloading of the data: a submission button is available for this purpose.
Finally, text fields are available to perform a free search on a criterion such as a name, serial number or comment. These fields accept Windows wild cards (replacement of a character string with "*", replacement of a character with "?"). For ergonomic reasons, on some filters the search is performed by default according to the "criterion included in the name" rule and there is no need to use wild cards (case of the serial number). When data are filtered, the number of results shown corresponds to the number of records returned after filtering. List browsing is performed normally.

5.4.5 Data

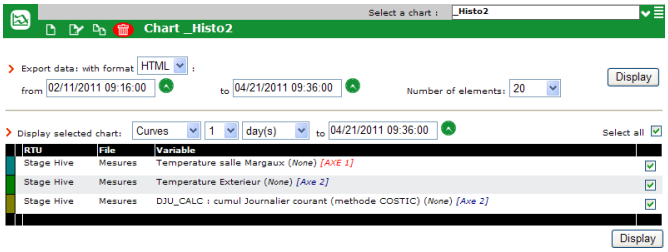


Data appear in the form of lines describing each element of the list. The columns can contain:
- A check box which allows the event to be included in an action triggered by the action buttons (deactivation, reading, etc.).
- A main link which generally routes you to the element's detail page. This link can also lead to the most appropriate page for the context (the links of the site list page will route you to the site detail page while the links of the site management page will route you to the site edit page).
- Characteristic information on the element which may possibly be filtered or sorted.
- Buttons may be present on some lists, allowing direct access to a single action on the element not requiring parameterizing.

5.4.6 End of list

This shows the number of elements returned after filtering, and allows you to browse through the list where applicable.

5.5 Detail pages


Select a chart : _Histo2
Chart _Histo2
Export data: with format HTML :
from 02/11/2011 09:16:00 to 04/21/2011 09:36:00 Number of elements: 20
Display
Display selected chart: Curves 1 day(s) to 04/21/2011 09:36:00
Select all
RTU File Variable
Stage Hive Mesures Temperature salle Margaux (None) [AXE 1]
Stage Hive Mesures Temperature Exterieur (None) [Axe 2]
Stage Hive Mesures DJU_CALC : cumul Journalier courant (methode COSTIC) (None) [Axe 2]
Display

The detail pages can display information relating to a particular element. They also allow editing actions and triggering of the functionalities of these elements.

5.5.1 List bar

When it is available, this bar contains a dynamic list which allows the page to be reloaded with a new reference element without going via the list page.

5.5.2 Title bar

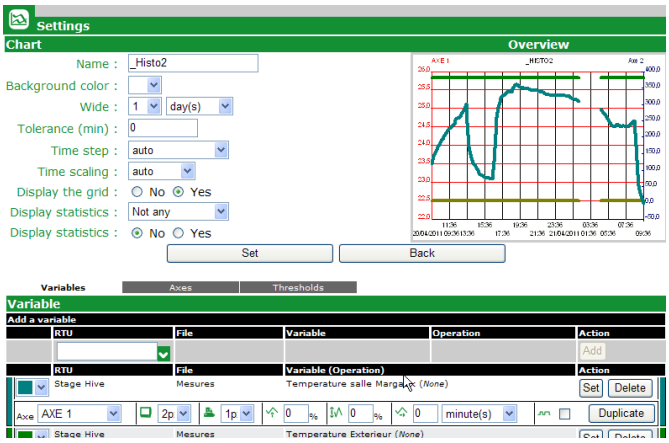
The title bar contains the name of the element displayed and the edit buttons for that element. The Add and Change buttons then open the edit page. When the element contains other elements or information that are too numerous to be displayed on the detail page, corresponding buttons may also be present on this bar. They then route you to other list or detail pages concerning these sub-elements.

Example: the title bar of the detail of a site contains buttons making it possible to access the list pages of the site links and paths, site events and site files.

5.5.3 Body of the page

This body, which depends on the type of object displayed, makes it possible to display various information, perform settings and run functionalities attached to it.

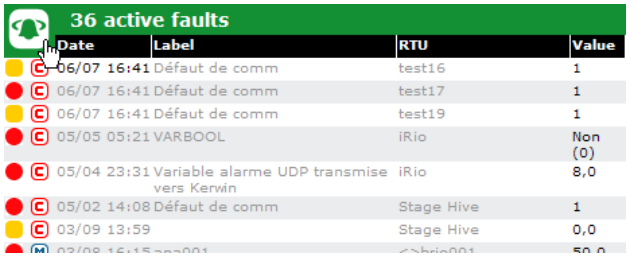
5.6 Edit pages

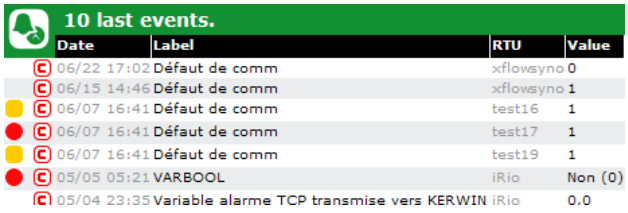


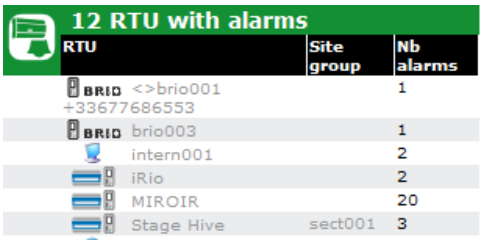
The edit pages allow you to change an element or create a new one. They do not have a link list and consist basically of a form allowing the entry of new characteristics, an Add or Change button and a Cancel button. During editing the navigation tree is not present; your changes must be confirmed or cancelled before navigating in Kerweb again.

6 The monitoring menu

6.1 The synthesis page (available in general mode)


36 active faults
Date
Label
RTU
Value
06/07 16:41 Défaut de comm test16 1
06/07 16:41 Défaut de comm test17 1
06/07 16:41 Défaut de comm test19 1
05/05 05:21 VARBOOL iRio Non (0)
05/04 23:31 Variable alarme UDP transmise vers Kerwin iRio 8,0
05/02 14:08 Défaut de comm Stage Hive 1
03/09 13:59 Stage Hive 0,0


10 last events.
Date
Label
RTU
Value
06/22 17:02 Défaut de comm xflowsyno 0
06/15 14:46 Défaut de comm xflowsyno 1
06/07 16:41 Défaut de comm test16 1
06/07 16:41 Défaut de comm test17 1
06/07 16:41 Défaut de comm test19 1
05/05 05:21 VARBOOL iRio Non (0)
05/04 23:35 Variable alarme TCP transmise vers KERWIN iRio 0.0



6.1.1 Faults in progress

The table displays faults in active or acknowledged status. On each row appears the status, criticality, label of the fault, the name of the site on which the fault is located, and the value of the fault.
In the case of an active fault, the icon representing the status is a button and its activation triggers acknowledgement of the fault.
At the end of the list, a link "To see more" allows you to open the Monitoring -> Events -> Alarms page.

6.1.2 Latest events

The table displays the last ten events irrespective of their status. On each row appears the status, criticality, label of the fault, the name of the site on which the fault is located, and the value of the fault.
In the case of an active fault, the icon representing the status is a button and its activation triggers acknowledgement of the fault.
At the end of the list, a link "To see more" allows you to open the Monitoring -> Events -> Log page.

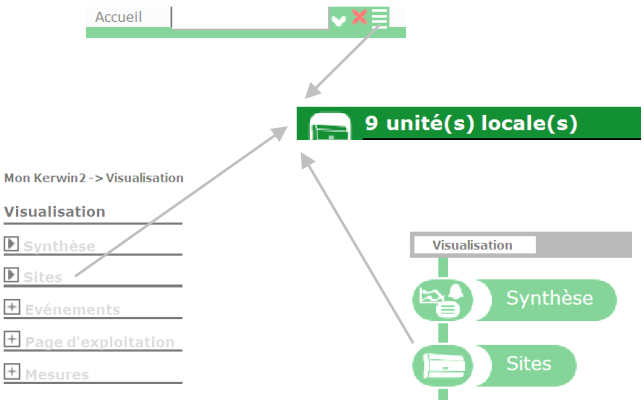
6.1.3 RTUs at fault

The table displays the list of the last ten sites to have triggered a fault (name of the site, the sector it belongs to and the number of faults present). On each row, three symbols can also appear. These indicate communication in progress, deactivation or an RTU cyclical call fault.
The sector name contains a link to the "Monitoring -> Sites" page with an active filter of RTUs at fault and activation of the filter on the sector in question.
At the end of the list, a link "To see more" allows you to open the "Monitoring -> Sites" page with an active filter of RTUs at fault.

6.1.4 RTUs

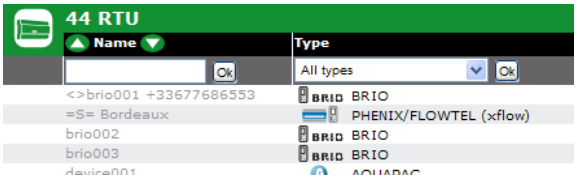
The table displays the list of the first ten sites in the process of connection, then in alphabetical order. On each row may appear three symbols warning of communication in progress, deactivation or an RTU cyclical call fault, its name, the sector it belongs to, and two buttons allowing the site to be called to retrieve variables for the first button and files for the second. The presence of these buttons depends on the type of RTU.
At the end of the list, a link "To see more" allows you to open the Monitoring -> Sites page with activation of the filter on the sector in question.

6.2 Site pages



6.2.1 The site page (list page available in general mode)

The site page is a list page.
It is used for routing from the general mode to the site mode. The selection of an RTU in this list therefore opens the site mode monitoring menu. It has no navigation tree. It is also accessible from the list icon for the dynamic list of sites in the main band.



6.2.1.1 Sorting

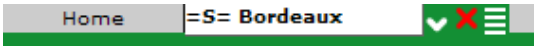
It is possible to sort the list by increasing or decreasing name or to filter the page by increasing or decreasing sector name of the site. When sorting by sector is applied, only the sites belonging to a sector are displayed.

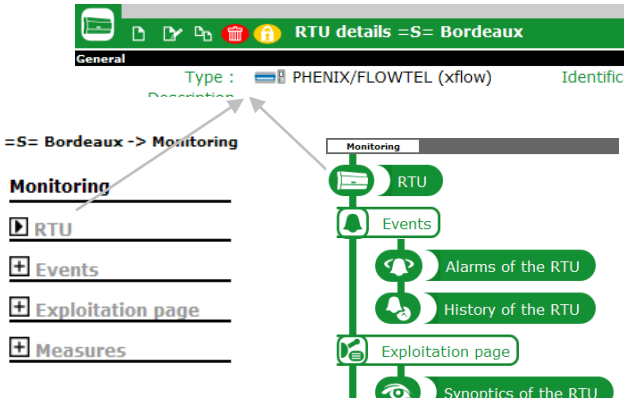
6.2.1.2 Filters

It is possible to filter only the RTUs having a fault. An "[RTU(s) at fault]" link is available at the top of the page. When this link is active, an "[All units]" link allows you to return to the complete list. On the filter bar, a text field type filter allows filtering by a text included in the name of the site (*[Text]*). Another selection type filter allows the display of RTUs of a certain type.

6.2.1.3 Data

Each row contains the following information:
An optional symbol warning that the site is currently communicating with the server.
An optional symbol warning that the site is deactivated.
An optional symbol warning that the site is in a cyclical call fault.
The text link to the name of the RTU which routes you to the site detail page by switching to site mode.
The type of RTU.
The phone number in the case of a modem link or the IP address of the site in the case of a network link, or else the GSM voice number in the case of a BRIO type unit.
An optional hypertext link to the name of the site sector which routes you to the sector's edit page.
It is possible to configure in the user preferences an additional column: display of the serial number.





6.2.2 The site page (detail page available in site mode)

The detail page belongs to the site mode. It allows you to view all the information on the selected RTU. It consists of the conventional elements of a detail page; the title bar and its action buttons, the body of the page with detailed information, but also three dropdown lists allowing rapid viewing of elements of the RTU.

6.2.2.1 Action buttons

Three toolbars are present on the detail page of a site.

6.2.2.1.1 The edit bar 1

This bar corresponds to the conventional actions of adding, change, duplication and deletion.
- The Add button proposes a list of types which can be selected to add a unit of that type.
- The Change button opens the edit page.
- The Duplicate button creates a new site by replication and opens the edit page.
- The Delete button opens a confirmation box requesting deletion of the site and all data related to it.
- A fourth button allows validation of the site when it is invalid or its devalidation when it is valid.

6.2.2.1.2 Site element bar 2

This bar allows you to open the list pages containing information on the site data.
- The "link" button routes you to the list/detail page of link configuration.
- The "paths" button routes you to the list/detail page of variable management.
- The "event" button routes you to the events list page.

- The "files" button routes you to the list/detail page of file management.
- The "event definition" button routes you to the events definition list page.

6.2.2.1.3 The site action bar 3

This bar allows certain communication operations to be performed on the site. It is different depending on the type of RTU.

- The "auto-configuration" button allows you to request an auto-configuration of the site.
- The "read configuration" button allows you to save the RTU configuration binary file to the supervisor's disk.
- The "write configuration" button allows you to rewrite in the RTU the configuration file saved to the supervisor's disk.
- The "refresh variables" button triggers a call by the data server to the RTU and updating of the value of its variables.
- The "read files" button triggers a call by the data server to the RTU and retrieval of all the new data contained in its files.

For units of the BRIO type, there exists a link to the remote configuration page and another link to the remote configuration history.

6.2.2.2 Information

The RTU information is grouped in six different sections.

6.2.2.2.1 General

- Type of unit:

Schneider Electric RTUs
BRIO / W310
iRIO / XLRIO … [XFLOW]
W@DE W315, W320E, W325
HERMES
MUC5 / MUC5 Double / MUC9 (TBC second generation)
TELEFLO
TL04

Other equipment (optional)
AQUAPAC (Technolog)
BARTON
COMPTEUR JAUNE (EDF, requires a special TRIMARAN V23 modem)
COMPTEUR VERT (EDF, requires a special TRIMARAN V23 modem)
DATAM (Datam-Flutec DFT80M)
PERAX (PERAX P200, P200X, P200XM, P400X)
RADCOM (RADCOM datalogger)
SOFREL (SOFREL, RTUs in SOFBUS S10, S15, S50, S500 protocol, etc.)
WIT (WIT, RTUs in TRSII, CLIP and FORCE, E@SY protocol)

- Identification: Depending on the type of unit, this is its Modbus address or its satellite number.
- Description: Free text containing additional information on the site.
- Model: the physical model of the device. Available only for XFLOW, TELEFLO and TL04. Retrieved by auto-configuration.

6.2.2.2.2 Location

This section contains information relating to the classification and geographic location of the site. It contains:
- The sector: Classification allowing one filter per workgroup.
- The country, region and zone which allow a geographic classification of the site.
- The time zone: Defines the time zone of the RTU. Combined with GMT synchronization, this setting compensates for the time difference between the RTU and the server in the management of event and measure dates.
- GMT synchronization activates the functionality described above. It can be enabled or disabled.

6.2.2.2.3 Management

The Management tab makes it possible to identify the device in the supervisor's organization by a group, the device class and an index, the device level.

6.2.2.2.4 Communication/links

This section displays information relating to communication between the server and the site. It changes depending on the type of unit, since the communication modes differ from one to another. This section is not present for internal or virtual sites. It contains:
- The link used.
- The date and status of the last auto-configuration action.
- The date and status of the last call.
- The IP address or the phone number depending on the type of link.
- The GSM phone number.

- Information on the backup link.

6.2.2.2.5 Access

Displays, depending on the type of unit, the user name and password required for authentication on the RTU.

6.2.2.2.6 Cyclical call and time setting

Describes the functions relating to site supervision by cyclical call. It contains the following information.
- Activation of automatic time setting.
- Activation/status of the cyclical call: it can be "Cyclical call Ok", "Cyclical call not managed" or "Cyclical call fault".
- The frequency of the cyclical call and the tolerance applied to it.
- The date of the last call.
- The calculated date of the next call.

6.2.2.2.7 Miscellaneous

This section contains technical information specific to the RTU such as the address of the event zone or the address of the Wade unit selection word or the number of the control table for a Soffrel.

6.2.2.3 Dropdown lists

These three lists make it possible, while remaining on the main page, to have a rapid view of the site elements. To view a list, a + button is present to the right of the list band. At opening, it is replaced by a – to close it again. The lists are closed at login and the opening status of the lists is stored during the session.

6.2.2.3.1 Events

The Events link routes you to the events list with the filter of the RTU. The list contains the status, criticality and date of occurrence information, label, nature and value.

6.2.2.3.2 Variables

The Variables link routes you to the page of the list of site variables. The list contains a button allowing display of the value curve of the path, a link to the detail page of the path, and then type and value information.

6.2.2.3.3 Files

The Files link routes you to the page of the list of site files.
The list contains a link to the detail page of the file, then information on the type and date of last reading.

6.2.2.3.4 Additional information

This section includes information about referencing or management of device and contains
- A reference field.
- A note field.
- An attached file: This downloadable file contains information about device. It's viewable if user has read write on uploading files. If the link load a not found error page, the file was abnormally removed from the server.

6.2.3 The site management page (edit page available in general mode)

It belongs to the general mode management menu and will therefore be described in: management menu (general mode) -> The site management pages ->
The list page.

6.2.4 The site management page (edit page available in site mode)

It belongs to the site mode management menu and will therefore be described in: management menu (site mode) -> The site management pages ->
The edit page.

6.3 Event pages.

6.3.1 The event history page.

The event pages are list pages.
Each consists of the following parts: a legend; action buttons; the header bar and its sort operations; the filter bar which can be replaced by an advanced filter and the data; the end-of-list bar which displays the number of events after sorting.

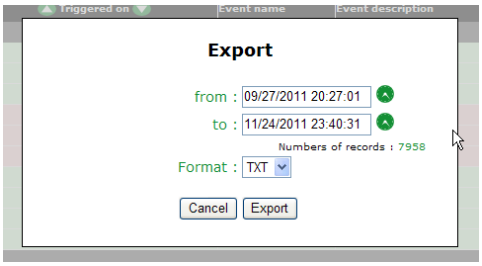
6.3.1.1 Legend

The icons of the data showing the status and criticality of each event are specified:
The status can be Active, Acknowledgement or Deactivated. For each event, the background colour of the row (red, orange or green) replicates this information.
The criticality can be critical, minor or indication. For each event, the font colour of the date (red, blue or grey) replicates this information.
If the "level" option has been selected in the preferences, these icons are replaced by the numerical value (0-255) of the criticality.

6.3.1.2 Action buttons

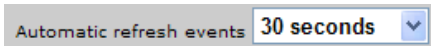
The buttons displayed on the left-hand side are direct actions on the events ticked in the list.
Acquitter : You indicate that you have been alerted.
Désactiver : You manually indicate a return to normal.
Supprimer : ***NB:*** The event is permanently deleted from the database.
Exporter : Opens the window providing access to events export.

6.3.1.3 Export



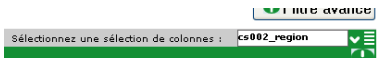
The export function allows up to 10,000 events to be retrieved in Excel and Text formats. This function is accessible by pressing the Exporter button. A dialogue box appears. It allows you to choose the export end-dates and the format wanted. The number of records that will be returned during validation is entered after each change. This selection adds to all the filtering in progress on the display, thus creating a filter including the selected event filter, simple and advanced filtering and the start- and end-of-export dates.

6.3.1.4 Autorefresh



The event table is updated automatically, thus reflecting creations, deletions and changes of state. The default value (30 seconds, 1, 2 or 5 minutes or no refresh) can be saved in the client configuration file. This value can be modified directly on the page and remains valid for the session time.

6.3.1.5 Column selection



The display of information on events is saved in the user preferences. It is possible to select a different display from the list: "Select a column selection". To manage this display, a list button is available on this list. These selections modify the display and the order of the various columns presented.

6.3.1.6 Event filters

The filter applied to events is saved in the user preferences. It is possible to select a different display from the list: "Select an event filter". To manage this display, a list button is available on this list. These filters modify the display and the order of the various columns presented.

6.3.1.7 Header

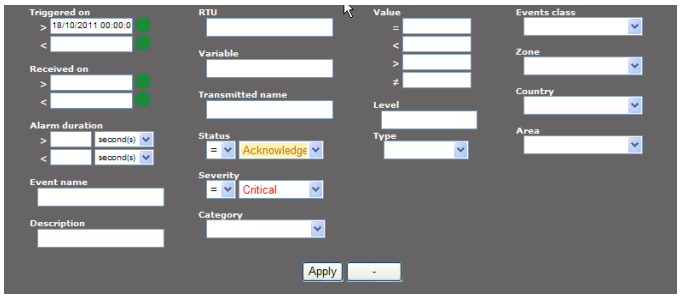
On the header are displayed the icons representing the active status and criticality filters and the active filters of dates of occurrence and reception. If a filter is active at the same time on a date of occurrence and a date of reception, only the filter on the date of occurrence is mentioned on the header. However, the filter bar always indicates whether a filter is active. The list navigation buttons and the column names are also present. The list can be ordered by columns of date of occurrence and date of reception.

6.3.1.8 Filters

When the filter bar is displayed, the Filtre avancé button is available on the right-hand side of the page. This advanced filter allows the conventional filter band to be replaced by an advanced filter allowing criteria to be chosen in nearly all the characteristics of an event. The latter itself contains a << button which allows you to return to the filter bar by closing the advanced filter again. The advanced filter/filter bar status is stored throughout the session.

6.3.1.8.1 Filter bar

The filters are as follows:
Date of occurrence: A filter can be produced on events occurring before a date, after a date or between two dates (by filling in both fields). The dates of occurrence take into account the time zone configured for the site.
Date of reception: A filter can be produced on events received by the server before a date, after a date or between two dates (by filling in both fields). The dates of reception take into account the time zone defined for the user.
Label: Filter on the event label. The filter operates only for events attached to a path. Events of the "astreinte" (on call) or acknowledgement type will not appear under this filtering. It is necessary to use wild cards to perform a search on a part of the label.
RTU: Filter on the name of the remote terminal unit initiating the event. Events not coming from a remote terminal unit will not be displayed.
Nature and type: Two conventional selection filters: choose a nature or type in the two available lists for filtering events.
Fault duration: A filter which allows you to select faults whose duration is less than or greater than a specified duration. To produce such a filter you must open the "fault duration" filter >>, enter a value > and a unit second(s), and, lastly, confirm the filter Apply.



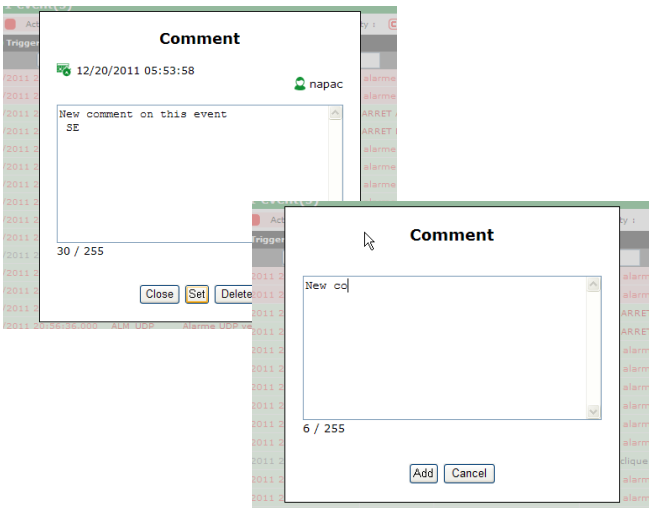
6.3.1.8.2 Advanced filter

The advanced filter contains the same filters as the filter bar whose operation is similar. It also contains the following filters:
Value: Four other fields are available to filter by value; in this case you can select the filters equal to, less than, greater than and different from a value. These filters can be combined. The value compared is the raw value of the event, not taking into account any formatting.
Level: is an equality comparison on the "level" field of the event (0-255).
Class, Zone, Country and Region are selection fields which allow you to filter on the classification of events. Filtering by sector or by workgroup is still possible by means of the permanent filters of the main menu.
The "display archived events" box, independent of the filters, makes it possible, when selected, to retrieve the events located in the event table or in the "pastevent" table (table of archived elements). A request on these two tables may entail slowness in the reply.

6.3.1.8.3 Comments of events.

As the comments raw is selected seeing or editing becomes possible in function of user's rights. A comment gets associated with event.

Present comments are displayed in comments raw . A tooltip displays text mouse-over. A window opens on click in witch you can edit or delete this text.

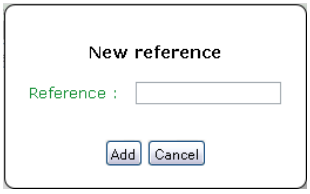


This window mentions the author of text and its date of writing. Then you can type a new text or delete existing. Replacing text with empty space does the same as suppressing whole comment. New user and date informations are automatically updated as “Set” button is clicked. “Close” button allows closing window without modifying user or date.

If event as no comment and user has writing rights, the icon allows to display comment window.

Then you can add new text and record through « add » button.

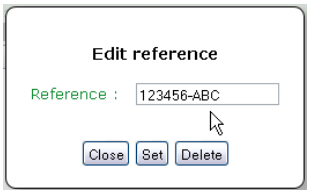
Comments must be less then 255 characters.
Return or tab are kept in messages but:
- Tabs are replaced with space while Excel export.
- Tabs and returns are replaced with spaces while text-export.



6.3.1.8.4 Event reference.

When the event reference column is selected editing a reference becomes possible depending on the user’s rights. The reference will be associated with an event. Existing event references are displayed directly in the reference column 123456-ABC. A tooltip with “Add a reference” is displayed when passing the mouse over the icon .

If an event has no reference and the user has writing rights, the icon allows to display the reference window. When you click on the icon a dialog box opens where you can edit the text.



You can also modify the text. Replacing text with empty space does the same as deleting the whole reference. Modifications are automatically updated when the “Set” button is clicked. The “Close” button allows closing the window without modifying any data.

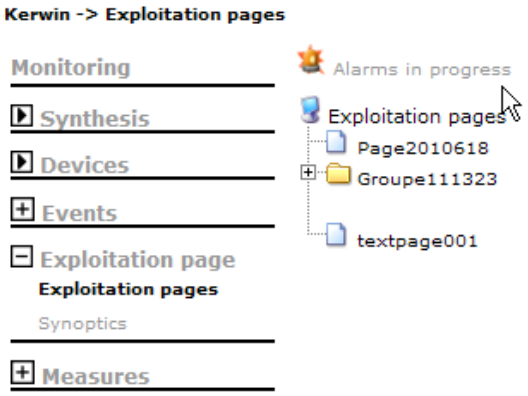
A reference must be less then 255 characters.
Carriage returns or tabs are kept in messages but:
- Tabs are replaced by spaces using the Excel export.
- Tabs and carriage returns are replaced by spaces using the text export.

6.3.2 The detail page of an event

This page is a detail page, it offers no functionality on the event and displays the following characteristics:
-ID -Label –Value –Class -Description of variable -Name of variable -Class of variable -RTU –Nature -Type-Criticality –Status –Level -Date of occurrence - Date of reception -Date of acknowledgement -Date of return to normal -Fault duration etc.

6.4 The text pages

6.4.1 The list page



The list page is not a conventional list page because it allows text pages to be organized with folders.
The first line is a link routing you to the list of alarms in progress. The following lines present the first-level folders and pages.
A ⊞ is present before each folder.
A press on a ⊞ opens the folder and reveals the folders and pages of the following level contained in that folder. The ⊞ then becomes a ⊟ which allows the folder to be closed again by hiding the open elements.
A press on the name of the folder has the same effect as pressing on ⊞ or ⊟ .
A press on the root icon or on a closed or open folder proposes organization editing. A text menu proposes creating in the selected element a new directory or a new page, renaming the element or deleting it. The deletion of a directory must be confirmed, because its deletion results in deletion of all the elements contained inside. The addition of a new page does not automatically route you to page editing. The page created is a blank page that can be edited.
For each page the operation will be as follows:
A press on the name of the page causes opening of the detail page of the text page.
A press on the page icon opens a menu proposing editing, renaming or deletion of the page. The deletion of a page must be confirmed. Editing of a page causes opening of the edit page of a text page.

6.4.2 The detail page

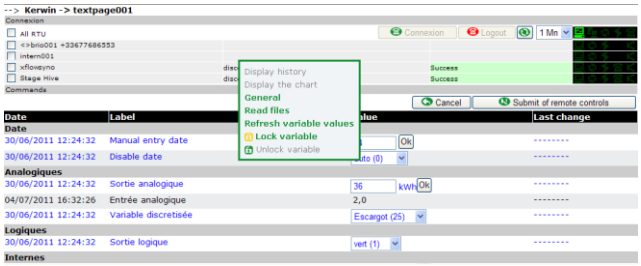
6.4.2.1 The connection console

The connection console allows actions to be performed on RTUs containing elements of the text pages. Visible on the second line of the page, it consists of:

6.4.2.1.1 The connection buttons

After selecting a site or the "all sites" option in the selection box, you can press on Login to open a permanent connection to the site or Logout to suspend it. During a permanent connection, the values are refreshed continuously between the server and the RTU. Page refreshment will also have to be set so that these retrieved values appear regularly on the screen.

6.4.2.1.2 The LED screen



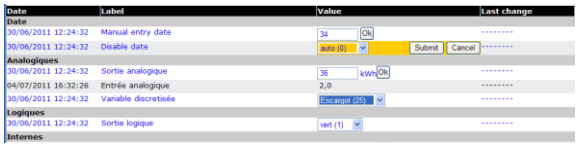
The LED screen has a diagnosis role on the connection console.

- f(x) Monitors the calculation activity on the page. This indicator flashes in one second and turns yellow when the schedule requires an operation.
- Lights when the console retrieves the data from Kerwin and turns yellow upon receiving this data.
- Lights when the console performs updating on the page and turns yellow when the page has been updated.

6.4.2.1.3 List of sites

This list allows you to monitor connection of sites for which there are objects present on the page. It consists of a list field which allows you to select the site on which the action will be performed and a status field which allows you to check its execution. In the case of a multi-site page, it is possible to choose "all sites" to monitor the connection of all the sites on the page. When the selection field is modified, the status is updated and a colour code allows you to monitor the status of requests on the chosen site.

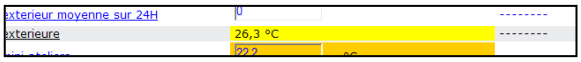
- White: No request in progress, no connection.
- Orange: Request in progress but connection not effective.
- Yellow: Connection in progress.



6.4.2.1.4 Remote control buttons

These buttons allow the remote controls programmed on the page to be validated or devalidated. Validation initiates connection to the remote site and activates the remote controls. This action cannot be cancelled. Cancellation devalidates the remote controls in progress which are not yet in course of transmission.

6.4.2.2 Data



The available data on the variables marked on the page are presented in the form of a table.
Each line provides information on the date of last rereading of the variable, the name of the variable, its value and the date of the last change of value observed.
On variables of the output or input/output type, the value is displayed in a text field for analogue values and in a selection field for logical values. The latter allow the value of the variable to be changed. A colour code specifies the status of the commands.

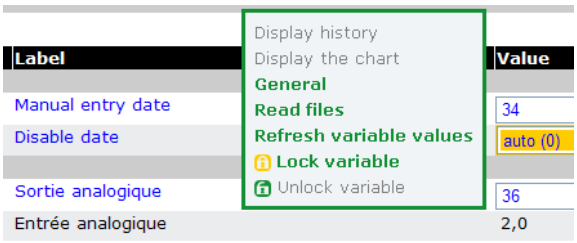
- Pale green when the setting request has occurred.
- Pure green when the setting request has been acknowledged on the server.

At this stage, the setting can be cancelled by activating the cancellation red cross on the path or by activating the Cancel button on the console (cancellation of all commands). By activating the "Send" button on the variable or on the console, you go to the following stages.

- Pale orange when the remote control request is sent to the server.
- Pure orange when the server logs in to the site to act on the command.

When the command is executed, the server rereads the variable. The line colour then changes to:

- Yellow if the variable has changed value following the command.
- White if the value of the variable has not been changed.



The indication of change of value by the yellow colour is operational irrespective of the type of variable (input or output).

The font colour also provides the following information for each variable:

- In blue the output or input/output variables.
- In black the input variables.
- In red the variables having an active alarm.
- In grey the variables in "locked" status.

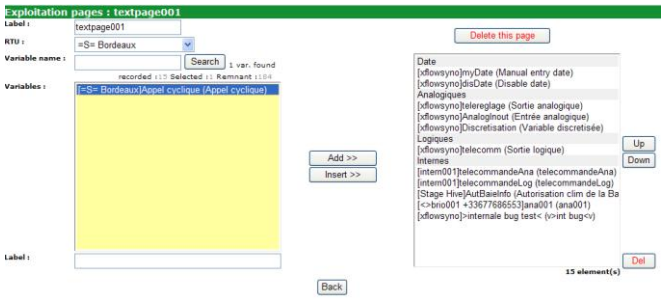
A link is available on the name of the variable; it allows you to open a menu which makes it possible to:

- Retrieve files from the site; this command retrieves all the measure files from the site.
- Refresh variables, which amounts to requesting reading of the file of instantaneous values.
- Lock or unlock the path depending on its current locking status.

If the variable is saved in a file, it will also be possible to:

- Display the history of the variable in table form.
- Display a variable value curve. The number of records returned corresponds to that entered in the preferences.

6.4.3 Edit page

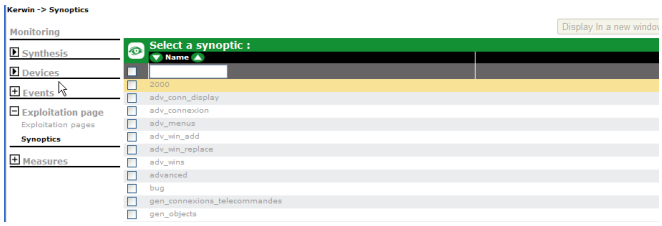


It allows you to enter the elements of the text page. These elements are of two types: Variable or label. It also allows you to modify or delete the page name.
To insert a variable, you must select a site and insert filtering on its paths. The "*" filter will return all the site paths that will be inserted in the "variables" field.
Once the variables have been selected in this selection list, two buttons allow them to be saved in the page. The "Add" button results in addition at the end of the page. The "Insert" button results in insertion of the element(s) above the element selected in the right-hand list.
Conversely, you can select variables from the right-hand selection list and press the "del" button to remove these variables.
The "Back" button closes the edit page again: you return to the list page.
The maximum number of variables is 200; during all these operations the numbers of records saved, selected and remaining are shows.
To insert a description, the text should be entered in the "label" text field, and the "Add" and "Insert" buttons operate as described above.

6.5 Synoptic pages

Synoptics are not editable on Kerweb. The accessible pages in the synoptic module are the list page and the detail page.

6.5.1 List page



6.5.1.1 Sorting

It is possible to sort the list by increasing or decreasing name.

6.5.1.2 Filters

A text field type filter allows filtering by a text included in the name of the synoptic (*[Text]*).

6.5.1.3 Data

Each line contains the name of the synoptic in the form of a link. This link opens the synoptic in the same way as the "Display in a new window" action.

6.5.2 Detail page

6.5.2.1 The connection console

The synoptics connection console is identical to the text page console.

6.5.2.2 The synoptic

The synoptic takes the form of a large background image on which are placed various types of objects. They are either static (the information that they represent does not change) or dynamic; in that case they represent information related to supervision elements and offer exploitation actions depending on their type.

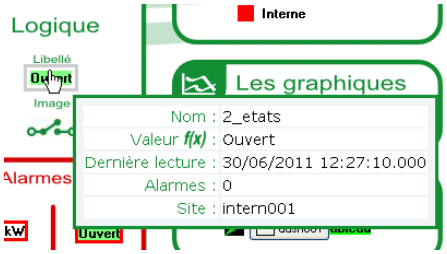
6.5.2.2.1 Static objects

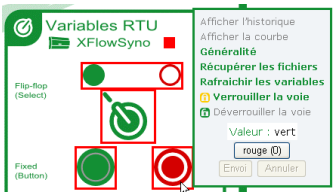
6.5.2.2.1.1 Labels

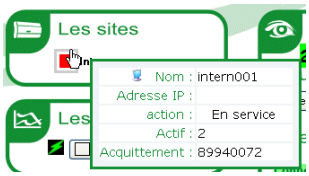
Single label which displays a text with its formatting options.

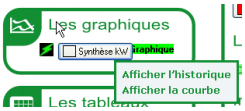
6.5.2.2.1.2 Images

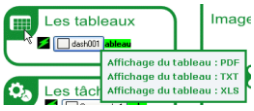
The static image is a single icon used for graphic enhancement of the synoptic.

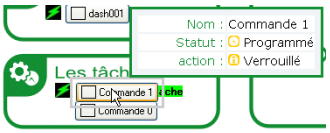












6.5.2.2.2 Dynamic objects

These objects are attached to an exploitation element (variable, site, chart, etc.). They are distinguished from the static objects by a grey edge line revealed when passing over them.

6.5.2.2.2.1 Variables

- Behaviour: The selection of a variable object opens a context-sensitive menu which displays information on the variable and allows remote control when this is authorized. The information and the remote control are identical to those of the text pages.
- Display: The variables are displayed in the form of either labels or images. For analogue values, these images are gauges (whose height or width vary depending on the value of the path), or n-state images (image whose content corresponds to a value state). For logical values, the image switches over depending on whether the value of the variable is 0 or 1.

6.5.2.2.2.2 Synoptics

- Behaviour: The selection of a synoptic object or the corresponding synoptic. Depending on the properties defined for the latter, the presentation will take place in a new window or in the current window.
- Display. Synoptic object take the form of a label, a single image or a button including a colour code corresponding to the presence of an alarm on the associated view. (green without alarm, orange with acknowledged alarm, red with alarm in progress).

6.5.2.2.2.3 Sites

- Behaviour: The selection of a site object opens a context-sensitive menu which displays information on site and a link allowing you to go to the site detail page, display site events, initiate a request for connection to the site in order to retrieve files or variables, or to lock the site.
- Display: The site is represented in the form of a small coloured square corresponding to the presence of alarms associated with the site. (green without alarm, orange with acknowledged alarm, red with alarm in progress).

6.5.2.2.2.4 Charts

- Behaviour: The selection of a graphic object opens a context-sensitive menu allowing the chart to be displayed in the form of a curve, of default depth, or the values in the form of a table.
- The chart is represented in the form of a button with the name of the chart, a text, an image as label or an overview of the graphic, with the zoom functionality.
- The overview depends of histories, and then it is not dynamically refreshed when the real-time values are retrieved.

6.5.2.2.2.5 Dashboards

- Behaviour: The selection of a dashboard object opens a context-sensitive menu allowing the table to be displayed in xls, pdf or text format.
- The dashboard is represented in the form of a button with the name of the table as label.

6.5.2.2.2.6 Sequences

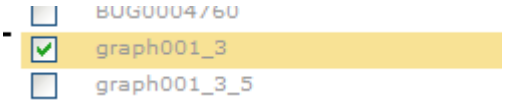
- Behaviour: The selection of a scheduler object opens a context-sensitive menu making it possible to lock the sequence or initiate immediate execution of the action.
- The scheduler object is represented in the form of a button with the name of the sequence as label.

6.5.2.2.2.7 Text pages

- Behaviour: The selection of a text page object opens the corresponding page in the form of a new window.
- The text page is represented in the form of a button with the name of the chart, a text or an image as label.

6.6 Chart pages

6.6.1 List page



6.6.1.1 Sorting

It is possible to sort the list by increasing or decreasing name.

6.6.1.2 Filters

A text field type filter allows filtering by a text included in the name of the chart (*[Text]*).

It is also possible to select graphics from the types:
- Classic
- XY
- Bargraph
- Lines
- Sectors

6.6.1.3 Data

The link set on the label opens the detail page of a chart.
The list displays the type and date of the last calculation of each graph.

6.6.1.4 Action buttons

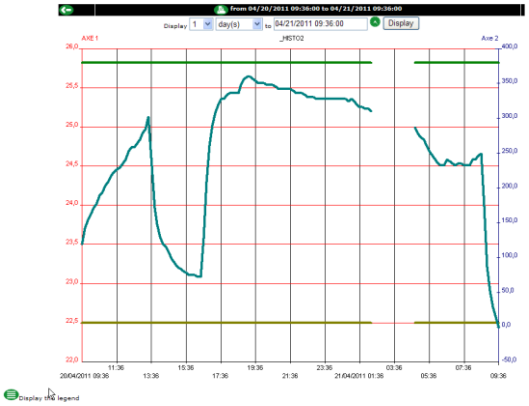
It is possible, by selecting the corresponding boxes, to display one or more curves directly. The curve is displayed in GIF format, over the depth defined by default on the chart. It is also possible to display the values in XLS or HTML format, the depth of which is that defined in the preferences. The generic functions of adding, copying and deleting are also available.

6.6.2 Detail page

6.6.2.1 Action buttons

Three toolbars are present on the detail page of a chart.

6.6.2.1.1 The edit bar
This bar corresponds to the conventional actions of adding, change, duplication and deletion.
- The Add button opens a window on which the name of the new curve can be indicated.
- The Change button opens the edit page.
- The Duplicate button creates a new curve by copying-
- The Delete button opens a confirmation box requesting deletion of the chart and all data related to it.



Information

Information on the chart is inserted in a form allowing monitoring settings. This form consists of two sections:

6.6.2.1.2 Data display

It is possible to choose the display format (HTML or XLS), to specify the start and end dates for the table of values and, lastly, set the maximum number of records to be returned. The HTML format returns a standard page containing a table of values. Ideal for instant viewing, this table can be used, depending on the user rights, to change the values in the file. The XLS format offers an Excel worksheet containing the values of the file, and it is therefore more appropriate for external data processing.

6.6.2.1.3 Chart display

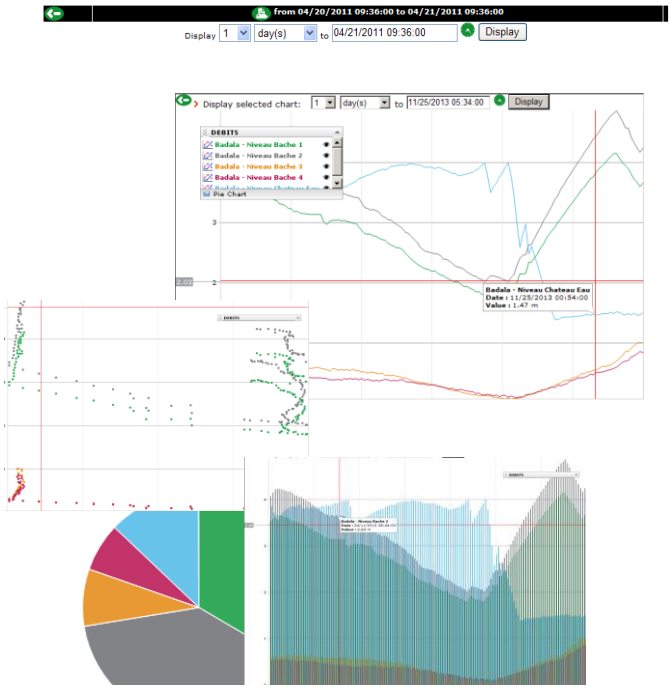
The form allows you to choose the scope as a range of period end date and, if necessary the selection of variables in the graph view. By default, all variables are selected.

6.6.3 Chart page

The chart page shows the data in the form of a curve or histogram, with an upper part allowing navigation and a lower part offering a legend.

6.6.3.1 Chart navigation

The and arrows allow you to navigate the list by shifting the data of the curve of the data range value forward or backward depending on the availability of file values. It is also possible to enter a new range and specify its date.



6.6.3.2 Chart

For conventional graphics it is a GIF image representing data according to the criteria requested. A dynamic zoom is available on the image itself. Support pointer displays an adjustable area that corresponds to the new display.
For other types, the chart is drawn on the browser. The zoom tool is dynamic and does not impact the range of data on which the graph is calculated.

6.6.3.3 Legend

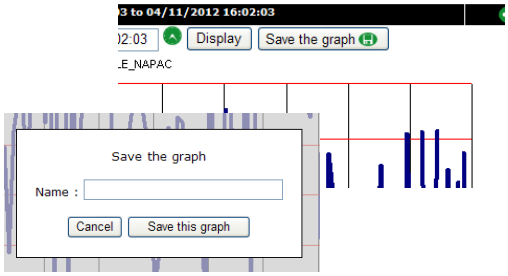
For conventional graphics , the button allows the legend to be displayed. This legend shows for each variable:

- The colour of the curve representing the variable on the chart.
- The name of the variable.
- The name of the site (link pointing to the detail page of a site)
- The colour of the axis attached to the variable.
- The name of the axis attached to the variable.
- The name of the file used for the data (link pointing to the detail of the file)
- The type of operation for saving the variable in the file.

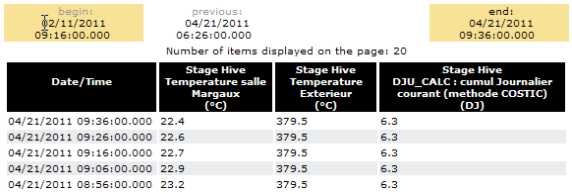
For other types, the legend is integrated graphics. It can be unfolded. It displays the list of available variables. These can be removed from the display.

6.6.3.4 Save graph.

If the chart was generate automatically from a variable or a file (instant chart available from device page, variable page, file page, text page and synopsis), a button allows saving this chart as a permanent chart available from the page of charts list.
The save request open a dialog box which in only the name of chart must be inquired.
On submit, a permanent chart will be create and display instead of the instant chart.



6.6.4 Data page (HTML)



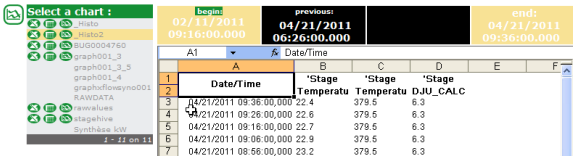
6.6.4.1 Table reading

The data are displayed by decreasing dates in the first column: At the head of the table are the most recent data. Each subsequent column displays a variable of the chart. The header contains the name of the site of origin of the variable, its label and possibly its unit. If the variable undergoes a conversion and has the option of saving the original data, the header indicates whether the data come from this original value or from the value after conversion.

6.6.4.2 Navigation

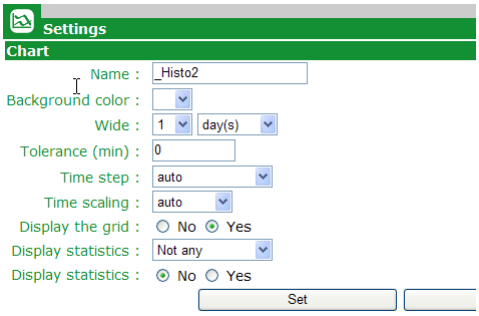
It is possible to display prior data by selecting "previous" to go back one page. "Start" brings you back to the start of the file. "Next" moves you forward one page. "End" redisplays the most recent data.

6.6.5 Data page (XLS)



The XLS data page operates the same as the data pages. Instead of displaying a mere table, Kerweb proposes a download of the corresponding Excel file. On Internet Explorer, with the MS Excel software installed on the client terminal, this file is incorporated directly in the page.
The information displayed and the navigation possibilities are the same.

6.6.6 Edit page



6.6.6.1 General settings

In this section it is possible to:

1. Change the name of the chart.
2. Select the chart type from:
   - Classic
   - XY
   - Bargraph
   - Lines
   - Sectors
3. Change the background colour of the chart display area.
4. Change the default scope of the chart, the data range displayed at first opening.
5. Change the tolerance by allowing smoothing of the curve when data are missing.
6. Set a customized time step.
7. Set a customized graduation of the time axis.
8. Display a grid on the chart display area.
9. Select the statistics calculated for each variable.
10. Display the statistics on the chart display area.

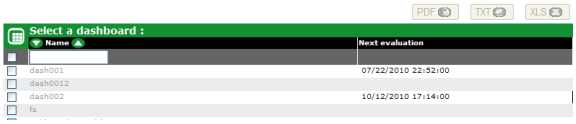
All these settings will be saved upon confirmation of the "Change" button. A preview taking into account these changes is displayed to the right of the settings form. The "Back" button allows you to return to the list without confirming these changes.

6.6.6.2 Objects settings.

It is possible to add variables, thresholds and lines on the graphs of conventional type.
For other types, it is only possible to add variables. Axes are always calculated automatically.
In the case of XY chart type, it is necessary to specify the X-axis by selecting the variable in the X-axis column and validate this choice by the "Edit" button.

6.7 The dashboard page (available in general mode)

6.7.1 List page



6.7.1.1 Sorting

It is possible to sort the list by increasing or decreasing name.

6.7.1.2 Filters

A text field type filter allows filtering by a text included in the name of the dashboard (*[Text]*).

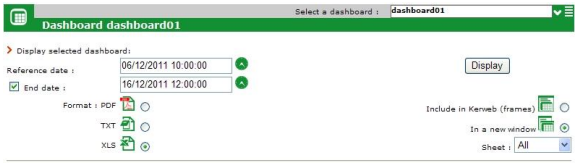
6.7.1.3 Data

The link set on the label opens the detail page of a dashboard.

6.7.1.4 Action buttons

These buttons allow rapid opening of one or more dashboards. Without settings, the table(s) is displayed on the current date, in a new window and with all the tabs.
The three buttons PDF, TXT and XLS open the tables in PDF, text and Excel format respectively.

6.7.2 Detail page

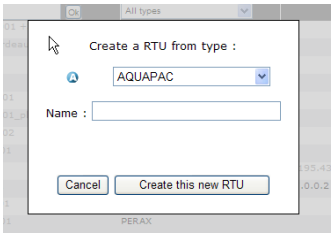


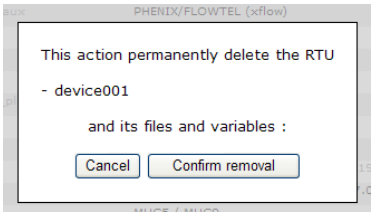
The detail page offers the various settings allowing the dashboard to be opened. There you can specify the date of calculation, initialized with the latest calculation value, the export format, and display in window mode or in the main page. You can also restrict export to a single tab of the dashboard.
You can specify an end date for the dashboard, activated with a checkbox. If you do so, the data range in the dashboard will end at this date.

After confirmation of the form (Afficher), depending on the format and its compatibility with the operating system, the type of browser and the software installed, the dashboard is displayed in the page or prompts for a download.
If display is possible, in the new window mode the browser opens the dashboard separately from the detail page, while in the frame mode it is incorporated in this page. In downloading, a dialogue box prompts you to name and save the dashboard in file form.

7 The management menu (general mode)

7.1 Site management pages





7.1.1 The list page

In the management menu, the list page allows you to navigate the list of sites with the same methods as for the site page of the monitoring menu, but also allows you to organize them. Moreover, the link present on the site name routes you to the site management menu and not to its monitoring. The two pages therefore have the same presentation, with the management menu page also incorporating the action buttons needed for this organization.

Ajouter un site — Opens the dialogue box for creation of a site in which the name and type of RTU will be entered.

Copier — Creates a copy of the selected sites with identical settings.

Supprimer — Opens the dialogue box allowing deletion of the selected sites.

Déverrouiller — Unlocks the selected sites which are inhibited.

Verrouiller — Locks the sites, and the sites thus inhibit are no longer managed by Kerwin.

Rafraichir les variables — Requests connection to the site to update the values of its variables.

Lire les fichiers — Requests connection to the site to update the values of its measure and event files.

7.1.2 Edit page

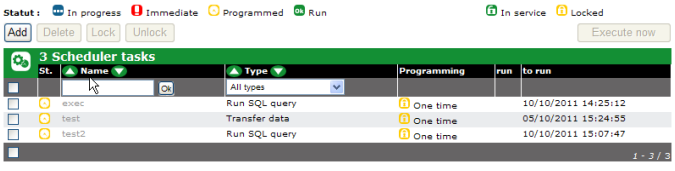
The site edit page belongs to the site mode management menu and will therefore be described in: management menu (site mode) -> The site configuration pages -> The edit page.

7.2 The scheduler pages

7.2.1 Scheduler menu strip

The scheduler pages are provided with a strip that can display the list of sequences by type or the list of all the sequences. This strip is present on the entire module.

7.2.2 The list page



7.2.2.1 Sorting

It is possible to sort the list by increasing or decreasing name.

7.2.2.2 Filters

A text field type filter allows filtering by a text included in the name of the task (*[Text]*).A selection field allows tasks to be filtered on a given type.

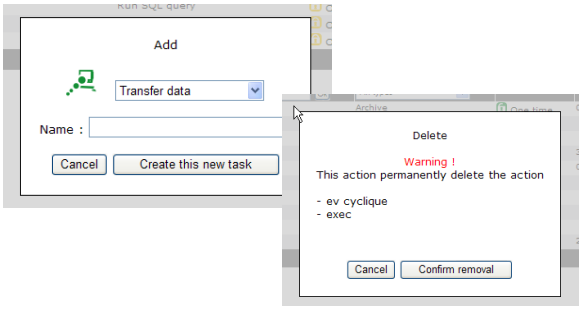
7.2.2.3 Data

The link set on the label opens the detail page of a scheduler task. An icon at the top of the line shows the task status.

Statut : En cours Immédiat Programmé Exécuté

Icons on the column indicating the frequency of execution of the task make it possible to know its locking status, i.e. whether the task is inhibited or active.

En service Vérouillé

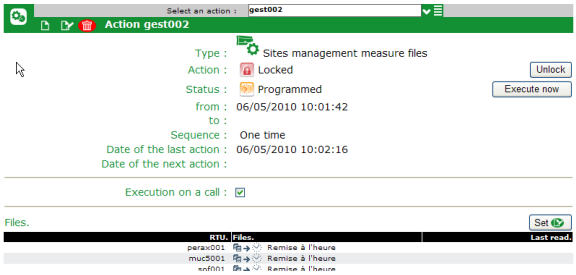


7.2.2.4 Action buttons

Add Opens the dialogue box for creation of a task in which the name and type of sequence will be entered.
Delete Opens the dialogue box allowing deletion of the selected tasks.
Unlock Unlocks the selected tasks which are inhibited. These tasks will be run again.
Lock Locks the selected tasks which are active. These tasks will no longer be run by the scheduler but remain editable.
Exécuter maintenant Initiates running of the active tasks which are selected. This running is immediate and does not take into account the date of next running.

7.2.3 Detail page

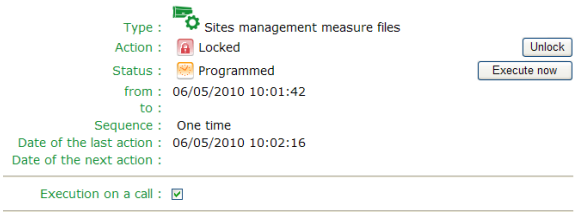
The upper part of the detail page offers generic information on the tasks and its optional lower part offers information related to each type of task.



7.2.3.1 Action buttons

These buttons correspond to the conventional actions of adding, change, duplication and deletion.
- The Add button opens a window on which the sequence type should be selected.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting permanent deletion of the sequence.

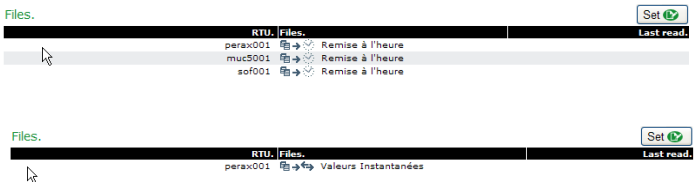
7.2.3.2 Generic information


Type : Sites management measure files
Action : Locked
Unlock
Status : Programmed
Execute now
from : 06/05/2010 10:01:42
to :
Sequence : One time
Date of the last action : 06/05/2010 10:02:16
Date of the next action :
Execution on a call :

The following elements are available on the display:
- Type of sequence (Data transfer, Database maintenance, Backup, Site management, Running a program, Run SQL query, Archiving and Cyclical Event).
- Locking status: locked or in service and the possibility of changing it: Lock or Unlock .
- Status:
  - Programmed: The action is programmed; it will take place at the time of the next occurrence.
  - The action has been performed, no new occurrence is programmed.
  - Immediate: The action has just been triggered
  - In progress: The action is being executed.
- From: The date of first occurrence.
- To: The date of last occurrence.
- Scheduling: The frequency of scheduling - may be a period or the indication "A single time" which specifies that the action is not programmed.
- Date of first action: Date on which the task was run for the first time.
- Date of next action: In the case of a programmed action, date on which the next occurrence of the task will take place.

7.2.3.3 Information on Data transfer and Site management tasks

The information dedicated to the "Data transfer" type covers the list of files that are saved in the task and will be retrieved on calling. You can view the name of the site to which it belongs, the file name, its type and the date of its last retrieval.
A list navigation button is available if the list exceeds 10 files. If the user rights so permit, the button allows you to open the file selection form so as to delete some of these files or add new ones.



7.2.3.4 Information on Database maintenance tasks

Display on what database maintenance will be performed.

7.2.3.5 Information on Backup tasks

Display on what database maintenance will be performed and the depth of the history that will be saved.

7.2.3.6 Information on Program running tasks

Display the command line that will be executed to run the program.

7.2.3.7 Information on Run SQL query tasks

Display the request that will be executed and the database on which it will be run.

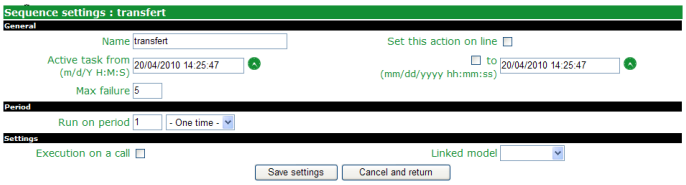
7.2.3.8 Information on Archiving tasks

Display the depth of the history that will be saved in number of days and a command line to it.

7.2.3.9 Information on Cyclical Event tasks

No additional information is available for this type of task.

7.2.4 The edit page

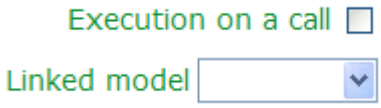


The edit page allows you to set the parameters for a sequence. Three tabs are available for parameters setup:

7.2.4.1 General

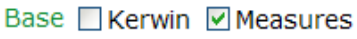
In this tab, you can set the name, the locking status at creation, the date of first occurrence and the date of last occurrence, and the maximum number of failures before stopping the task.

7.2.4.2 Editing a Data transfer task



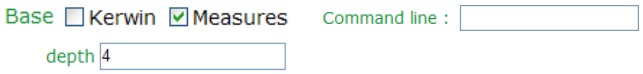
Editing an action of the "Data transfer" type allows you to define a site model associated with the task (model allowing all the sites belonging to the model to be included in the data retrieval) and to define whether retrieval should be performed upon calling the site. File selection is performed directly on the detail page.

7.2.4.3 Editing a Database maintenance task



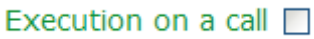
Editing an action of the "Database maintenance" type allows you to choose on what database maintenance will be performed.

7.2.4.4 Editing a Backup task



Editing an action of the "Backup" type allows you to choose on what database backup will be performed and to define the depth of the history that will be saved.

7.2.4.5 Editing a Site management task



Editing an action of the "Site management" type allows you to define whether retrieval should be performed upon calling the site. File selection is performed directly on the detail page.

7.2.4.6 Editing a Program running task

Editing an action of the "Program running" type allows you to define the command line that will be executed to run the program.

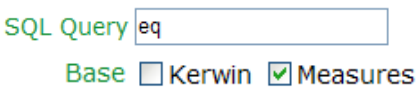
7.2.4.7 Editing an Run SQL query task

Editing an action of the "Run SQL query" type allows you to define the request that will be executed and to specify the database on which it will be run.

7.2.4.8 Editing an Archiving task

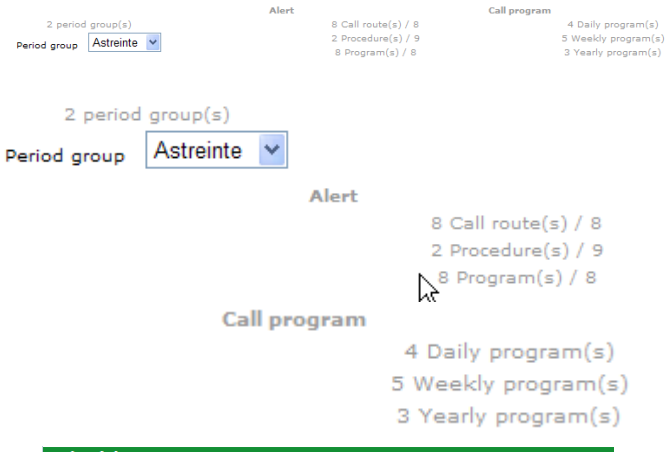
Editing an action of the "Archiving" type allows you to define the depth of the history that will be saved in number of days and to add a command line to it.

7.2.4.9 Editing a Cyclical Event task



The "Cyclical Event" task requires no additional parameters setup.

7.3 "Astreinte" (on call) pages



7.3.1 Astreinte menu strip

The "astreinte" pages are provided with a strip that can be used to point to the period groups or to select a different one. Other links allow access to:

- Call routes
- Procedures
- Programs

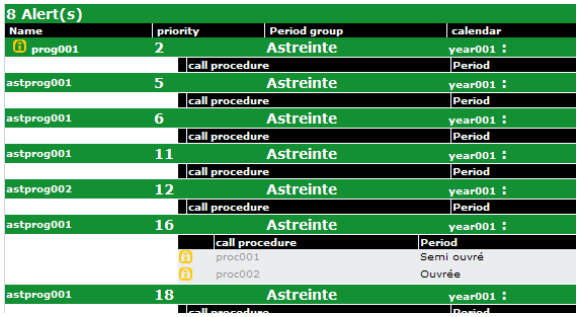
…of the "astreinte".

And to the Programs:

- Daily
- Weekly
- Yearly

This strip is present on the entire module.

7.3.2 The synthesis page



The synthesis page brings together the information for all the "astreinte" programs. Each program is presented there with its name, its priority, the workgroup on which it is configured, and the calendar that manages it. Each period is then described in detail with the corresponding status (locked, in progress), the procedure associated with it, and its name.

A lock icon is displayed if the program is locked.

7.3.3 The period group monitoring page

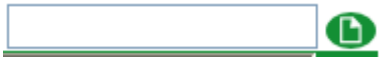
The period group monitoring page is a list/detail page which displays both the list and the details of the selected element.

7.3.3.1 List

The list of groups is displayed on the left-hand side of the page. Below are listed the calendar programs which use the selected group.

The details of the group itself are displayed on the right-hand side, presenting the following information:

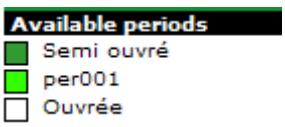
7.3.3.2 Action buttons



These buttons correspond to the conventional actions of adding, change, duplication and deletion.

- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting permanent deletion of the sequence.
- It is possible to change the name of the period by typing the name in the corresponding field and confirming via the Change button:
- To add a new group it is necessary to enter the name of the period before using the button.

7.3.3.3 Data



The data are displayed in a table which presents the periods forming the group and their identification colour in that group.

7.3.4 The period group edit page

For practical reasons of parameters setup, the period group edit page stores, like for the monitoring page, the list of period groups, with the main part being used to manage the periods of the selected group.

7.3.4.1 Adding a period

If the period to be inserted in the group is not available, it is possible to create a new one by entering in the "new period" field the name of the period to be created and confirming the entry.

7.3.4.2 Selection of a period in a group

Selection of a period is performed simply by confirming the of the period to insert it, or by confirming the to remove it from the group.

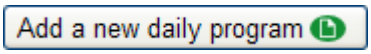
7.3.4.3 Choice of colour for the period in the group

The list of periods inserted appears on the right-hand part of the page. By pointing to the square of the period, it is possible to associate with it a colour inside its group.

7.3.5 Programs: the daily program page

7.3.5.1 Creating a program

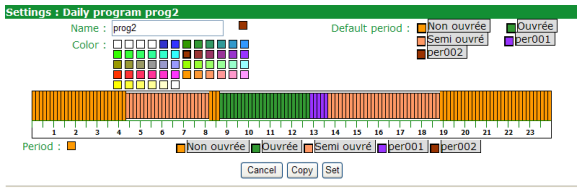
It is possible to create a new daily program by selecting the key at the top of the page. It is then possible to edit the program (editing a program)



7.3.5.2 List of programs

All the programs are displayed in a single page with their details. Each program represents a 24-hour day. The title strip displays the name and colour code of the program that will be used in the weekly and yearly programs day001 and proposes two edit buttons which allow it to be changed or deleted. , The deletion of a program results in the display of a request for confirmation when this is possible. If weekly and yearly programs use this program, it cannot be deleted.

7.3.5.3 Editing a program

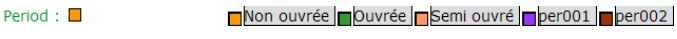


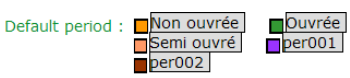
When the program is in editing mode, a data entry field appears in the position of the title and miscellaneous menus. All the information (Delete button, day scale, list of periods in progress) is always present. It is therefore possible to:

- Change the program name using the appropriate field:

- Delete the program:
- Change the colour code of the program by clicking on the colour palette.
- Change the default period, a period valid over the whole day without exception, by selecting a period in the "default period" window.
- Define exceptions by selecting a period on the "List of periods" window and then plotting that period directly on the scale.

All the changes will be accepted by pressing the "Change" button. The "Add" button creates a new program directly with the modified settings of the old program. The "Cancel/Back" button redisplays the list without applying the changes.

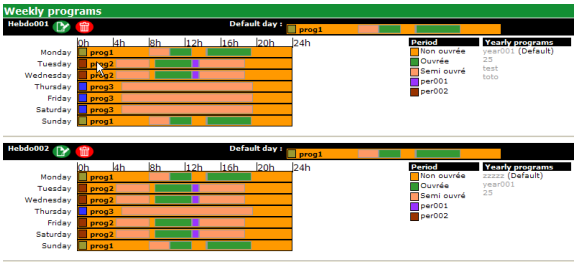




7.3.6 Programs: the weekly program page

7.3.6.1 Creating a program

It is possible to create a new weekly program by selecting the key at the top of the page. It is then possible to edit the program (editing a program)



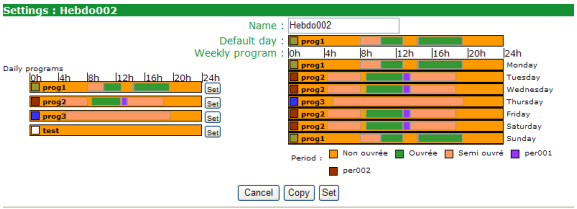
7.3.6.2 List of programs

All the programs are displayed in a single page with their details. Each program represents a 7-day week. The title strip displays the name of the program week001 and proposes two edit buttons which allow it to be changed or deleted. . The deletion of a program results in the display of a request for confirmation when this is possible or the number of yearly programs using it and making it impossible to be erased.

7.3.6.3 Editing a program

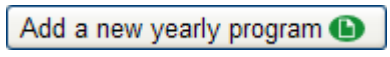
When the program is in editing mode, a data entry field appears in the position of the title and miscellaneous menus below, and on the right hand all the days set with the period group of the program. All the information (Delete button, list of days) is always present. It is therefore possible to:

- Change the program name using the appropriate field:
  Name : Hebdo002
- Delete the program: .
- Change the default day. It will be placed on the whole week by selecting a day in the list and then clicking on
  Jour par défaut : day003.
- Define exceptions by selecting a day in the list and then clicking on the day wanted for the exception.
- Go directly into editing of a day by pressing the 20h 24h Set button before a day in the list.



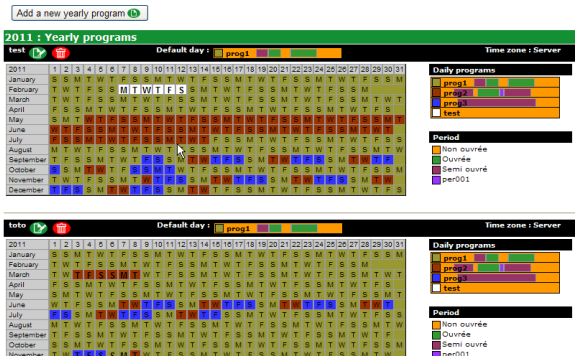
All the changes will be accepted by pressing the "Change" button. The "Add" button creates a new program directly with the modified settings of the old program. The "Cancel/Back" button redisplays the list without applying the changes.

7.3.7 Programs: the yearly program page



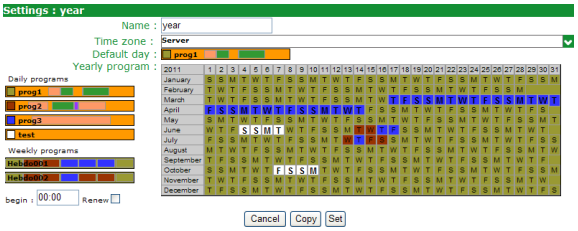
7.3.7.1 Creating a program

It is possible to create a new weekly program by selecting the key at the top of the page. It is then possible to edit the program (editing a program)



7.3.7.2 List of programs

All the programs are displayed in a single page with their details. Each program represents the current year. In this calendar, for each day, the corresponding daily program is displayed. When a specific day (which is not a default day) is carried over from one year to the next, it appears in bold letters. It is also possible to select a different year in the form allowing the period group to be changed Groupe de périodes Astreinte 2011. The title strip displays the name of the program year001 and proposes two edit buttons which allow it to be changed or deleted. . The deletion of a program results in the display of a request for confirmation.



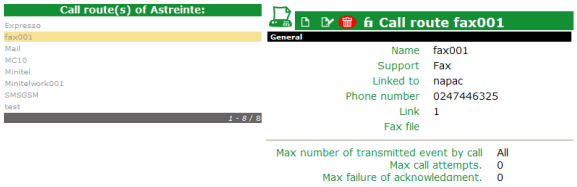
7.3.7.3 Editing a program

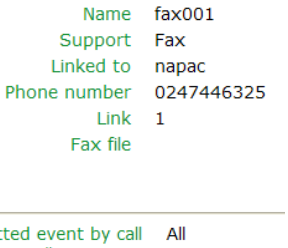
When the program is in editing mode, a data entry field appears in the position of the title, below, the edit buttons, and on the right a form allowing advanced editing and the list of daily and weekly programs that can be used. All the information (Delete button, calendar) is always present. It is therefore possible to:

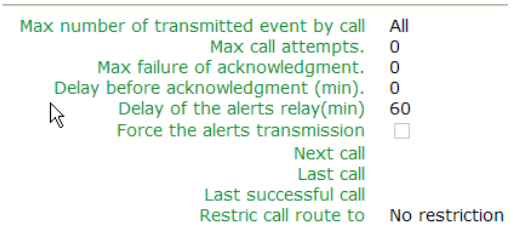
- Change the program name using the appropriate field:
  Name : year
- Change the time zone of the program.
  Time zone : Server
- Delete the program: .
- Change the default day. It will be placed on the whole year by selecting a day in the list and then clicking on
  Default day : prog1
- Define exceptions by selecting a day or a week in the list and then clicking on the day wanted for the exception. If this exception is to be carried over, the "Carried over" box must be ticked beforehand. If the exception does not start at 00.00 hours, then the start time must be defined beforehand: begin : 00:00 .

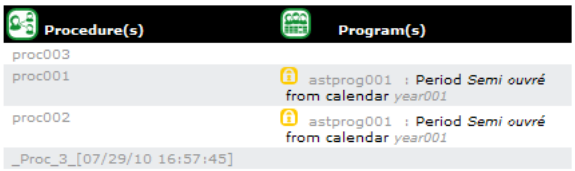
All the changes will be accepted by pressing the "Change" button. The "Add" button creates a new program directly with the modified settings of the old program. The "Cancel/Back" button redisplays the list without applying the changes.

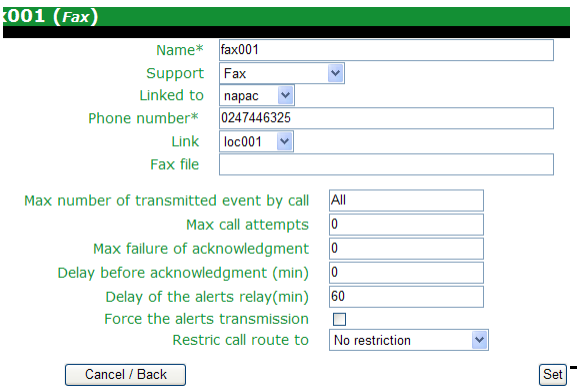
7.3.8 "Astreinte" (on call): the "astreinte" call routing page






Max number of transmitted event by call All
Max call attempts. 0
Max failure of acknowledgment. 0
Delay before acknowledgment (min). 0
Delay of the alerts relay(min) 60
Force the alerts transmission
Next call
Last call
Last successful call
Restric call route to No restriction





7.3.8.1 List

The "astreinte" call routing page displays the list of call routes. When no call route is selected, the right-hand part of the screen displays the various types of call routes available for adding. If a call route is selected, the right-hand part displays the details of the call route, with its action buttons and its data.

7.3.8.2 Action buttons

The menu of the "astreinte" call routing page allows you to:
- Add a call route: A dialogue box then opens to propose the type of call route to be added. Its selection opens the edit page.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting permanent deletion of the call route or indicates that the call route is currently being used by a procedure.
- Allows revalidation of a call route that might be at fault (neutralization of the call route following several failed calls)

7.3.8.3 Data

The first data block displays the general information related to the type of call route. The name given, the type of medium ("support"), the user to which it is attached and the typical information of the medium (fax file, GSM phone number, etc.).

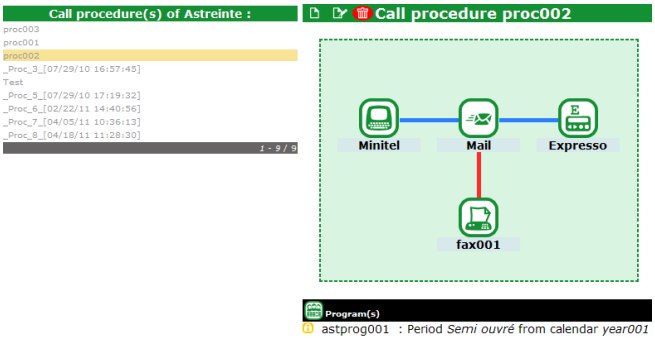
The second block displays information related to the operation of the medium in the call procedures.
- Max. call attempts: Maximum authorized number of successive failed calls. If this number is reached, a fault is triggered on the call route in question and the call procedure is inhibited.
- Time for call transfer upon a fault: Period elapsing between the fault on the initial call route and transfer to a backup call route.
- Delay before acknowledgement: Time allotted to the call route to acknowledge the alarms causing the call before restarting.
- Max. failure of acknowledgement: Number of restarts after each acknowledgement time overrun before inhibiting the call route and possibly switching to a backup call route.
- Delay of the alerts relay (time for call transfer upon a fault): Time for inhibiting the call route after max. acknowledgement failures
- Max. number of transmitted events: Limits on the number of events transmitted at each call, to be defined according to the capacity of the medium.

The third block displays the procedures that use the call route and the programs that use these procedures. It is therefore possible to view the programs by which the recipients are concerned.

7.3.8.4 Edit page

The edit page summarizes in a form the characteristics of a call route. The compulsory fields are marked with an asterisk. If these fields are not filled in, an error message appears, specifying the missing field.
The "Change" button takes into account the information entered.
The Cancel/Back button connects you to the details of the call route.

7.3.9 "Astreinte" (on call): the "astreinte" procedures page

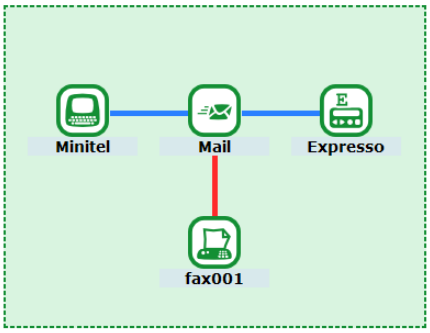


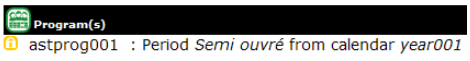
7.3.9.1 List

The "astreinte" procedures page displays the list of procedures. If a procedure is selected, the right-hand part displays its details, with its action buttons and a logical diagram of the calls triggered by the procedure when an alarm occurs.

7.3.9.2 Action buttons

The menu of the "astreinte" procedures page allows you to:
- Add a procedure: Opens the edit page directly to program a new procedure there.
- The Change button opens the edit page to program the selected procedure there.
- The Delete button opens a confirmation box requesting permanent deletion of the procedure or indicates that the procedure is currently being used by a program.

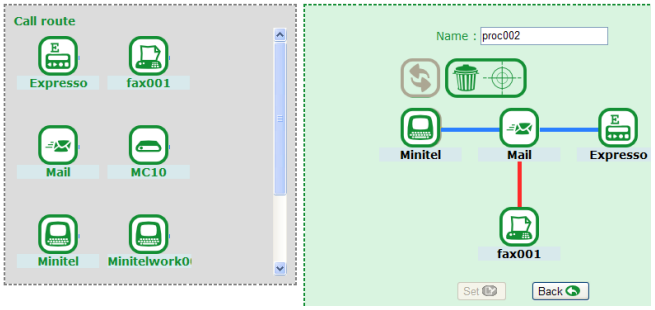




7.3.9.3 Logical diagram

The logical diagram shows the various call routes used by the procedure. The call starts with the call route located in the top left-hand and continues with the call route located to its right and linked by a blue line if the call has succeeded or else with the call route located below and linked by a red line if the call has failed.
As an example, the email is sent, and if sending has worked, the Expresso is called, otherwise it is an SMS message that will be sent. If the call to Expresso failed, a fax will be sent, then a call to minitel. If the SMS message failed after the email, the minitel will also be called.

Under the diagram, the various programs that are used by this procedure are shown.



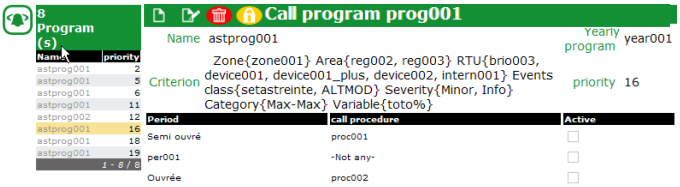
7.3.9.4 Edit page

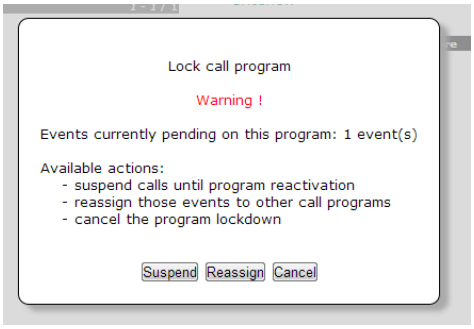
The edit page replicates the logical diagram and adds to the display:
- The list of available call routes.
- A text field with the name of the procedure.

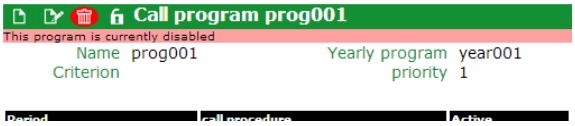
- A refresh button and a recycle button.
- The Change and Back buttons.

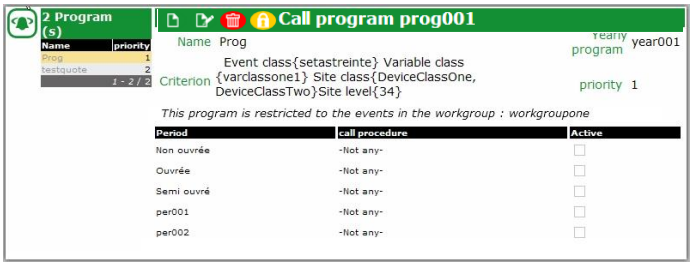
Insertion of a call route is performed directly by drag-and-drop from the list of call routes. The call route will be released:
- On the right of a call route (the link is traced in blue). The call route will be linked as the following call route.
- Under a call route (the link is traced in red). The call route will be linked as standby call route.
- In place of a call route: The call route will be replaced by the new one.
- On the recycle bin target (the recycle bin goes to red). The call route will be removed from the procedure.
- At any other place: The call route will not be linked to the tree and kept for editing for the time needed to confirm or cancel editing.

The Refresh button reinitializes the tree without reloading the page or taking into account the changes made to the name.
It is possible to move by drag-and-drop call routes or complete branches that are already linked.
It is also possible to insert call routes or complete branches between two call routes.
The changes are accepted upon confirmation by the Modifier button.
The Retour button connects you to the detail page of the procedure.









7.3.10 "Astreinte" (on call): the "astreinte" programs page

7.3.10.1 List

The "astreinte" programs page displays the list of programs. If a program is selected, the right-hand part displays its details, with its action buttons and program information and the period list with their associated procedure.

7.3.10.2 Action buttons

The menu of the "astreinte" programs page allows you to:
- Add a program: Opens the edit page directly to program a new program there.
- The Change button opens the edit page to program the selected program.
- The Delete button opens a confirmation box requesting permanent deletion of the program.
- The lock/unlock buttons allow to block the alert program.

When the program is locked, if the program has no pending events, it will be disabled, and its icon in the list will be replaced by a lock icon.

If there are events assigned to this program, a confirmation popup will be displayed, providing 3 actions:

- Cancel: cancels the program deactivation.

- Suspend: suspend calls for the events currently assigned to the program until its reactivation.

- Reassign: remove the events from this program, to allow other active programs to handle them.

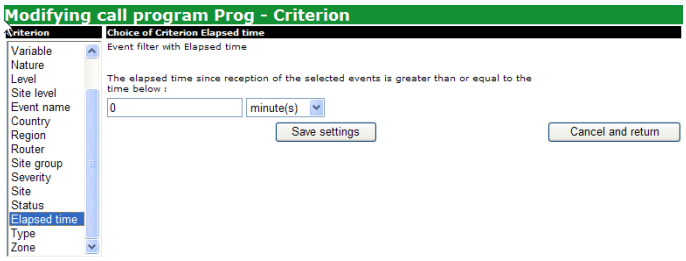
A message indicates if the program is locked.

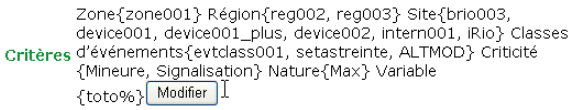
7.3.10.3 Data

The upper part of the table displays information related to the program.
- Its name.
- The calendar program on which it is based; this is the program that defines each period with which the call procedure will be associated.
- The criteria filter the events that will be managed by this program; events that are not part of the selection will not trigger a call or will trigger a call via another program which includes them in its criteria.
- The priority: is used to define which program manages an event which corresponds to the criteria of several programs. Programs of lower priority which include an alarm managed by the program of higher priority do not trigger a call.

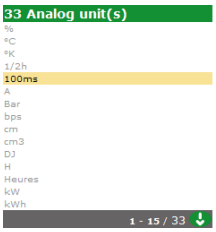
The lower part lists each period of the timetable, indicating the associated call procedure and whether the period is active or inhibited (in that case the procedure is inhibited). A statement indicates if the execution of the program is limited to the events of its workgroup.

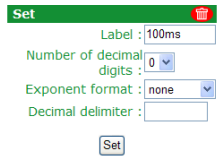
7.3.10.1 Criteria edit page

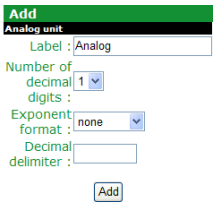


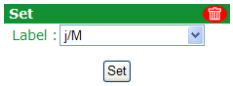

Critères
Zone{zone001} Région{reg002, reg003} Site{brio003, device001, device001_plus, device002, intern001, iRio} Classes d'événements{evtclass001, setastreinte, ALTMOD} Criticité {Mineure, Signalisation} Nature{Max} Variable {toto%}
Modifier

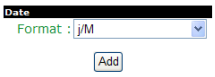
The left-hand selection list proposes all the types of criteria editable; by selecting one of them, the display proposes a field allowing you to edit its value.
The Save settings button saves the criterion being edited and redisplays the page without a type of criterion selected; it is then possible to press the Back button or edit a new criterion. All the criteria edited will thus be accumulated.
The Cancel and return button does not save the criterion, and the detail page is displayed.
The Back button redisplays the detail page, and the saved criterion then appears on the page.

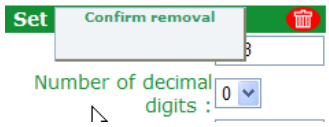












7.4 Units page

7.4.1 List section

The list section presents all the units in alphabetical order. The selection of a unit opens the Change section which allows editing or deletion of the element in question. A unit can be of the analogue type (unit of the value) or the date type (date formatting).

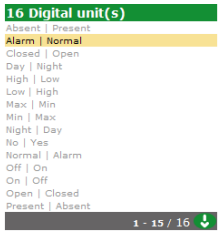
7.4.2 Change section

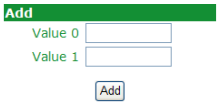
Present when a unit has been selected, it allows you to:
🗑 : Delete the unit (a link to be confirmed requests confirmation of the action).
Change the characteristics of the unit, changes taken into account upon confirmation by the Modifier button.

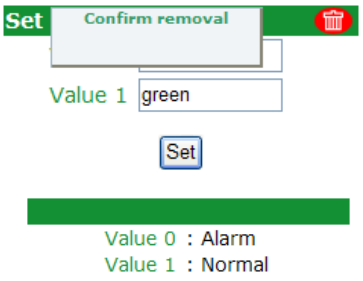
7.4.3 Add section

Allows you to add either an analogue unit, or date formatting. The available formats are imposed and must be selected from a list.

7.5 Logical labels page







7.5.1 List section

The list section presents all the logical labels in alphabetical order in the form Label0 | Label1. Label0 corresponds to the value 0, while Label1 corresponds to the value 1. The selection of a pair opens the Change section which allows editing or deletion of the element in question. Only the user labels can be edited; the original labels used by the system cannot be either changed or deleted.

7.5.2 Change section

Present when a pair of labels has been selected, it allows you, if the labels are of the user type, to:
🗑 : Delete the unit (a link to be confirmed requests confirmation of the action).
Change the characteristics of the unit, changes taken into account upon confirmation by the Modifier button.
The system labels do not allow editing.

7.5.3 Add section

The Add section allows you to build a new logical label available for the application by specifying a label for the value 0 and another for the value 1 of the variable with which this label will be associated.

7.6 Analogue label pages

7.6.1 List page

7.6.1.1 Sorting

It is possible to sort the list by increasing or decreasing name.

7.6.1.2 Filters

A text field type filter allows filtering by a text included in the name of the label (*[Text]*).

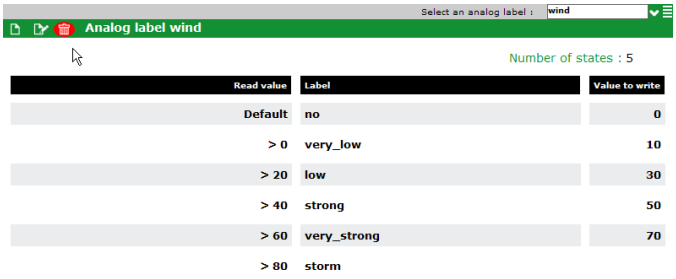
7.6.1.3 Data

Each line contains the name of the label in the form of a link. This link opens the detail page of the analogue label. The Label column of the default state contains the label which is returned when the value of a variable associated with the label is not included in one of the ranges defined for each state of the label.

7.6.1.4 Action buttons

The generic functions of adding, copying and deleting are available from the list. Only the labels defined by users can be deleted.

7.6.2 Detail page



7.6.2.1 The edit bar

This bar corresponds to the conventional actions of adding, change and deletion.
- The Add button opens a dialogue box allowing you to enter the name of a new label.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting deletion of the label.

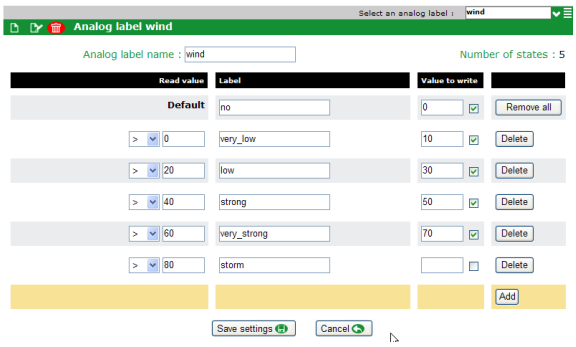
The reports created directly by the system are not modifiable. and are not available in this case.

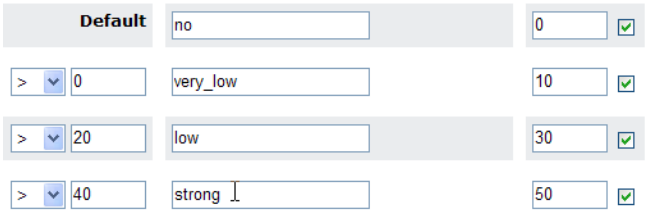
A selection box allows you to access the details of another label directly; a button allows quick access to the list.

7.6.2.2 Body of the page

The detail page displays the various states (one per line) of the label. The first line displays the default label. It corresponds to the value returned when none of the criteria defined for each state corresponds to the value of the variable. The states are sorted by increasing order of the tripping threshold, then by increasing type of tripping in order [=], [>] and [≥].
This criterion is defined by:
- A column displaying the criterion corresponding to the state in question. Consisting of a >, ≥ or = operator and the tripping value.
- A column displaying the label of the state.
- A column indicating the writing value of the variable when the corresponding state is chosen for remote setting.

The number of thresholds set for the label is shown on the page. It does not take into account the default state.
The Modifier le libellé analogique button opens the edit page.





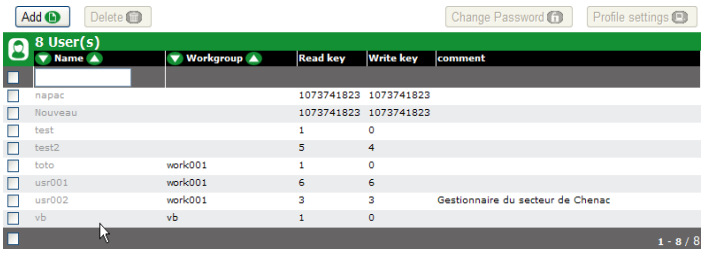
7.6.3 Edit page

The edit page allows you to change the name of the analogue label and the name of its default state. It also allows you to specify whether the latter can be selected during writing and, if that is the case, the corresponding value to be written.
It is then possible to add various thresholds, each time specifying the tripping value, the tripping operation and the label.
The thresholds are editable in any order, but the interface repositions them in increasing order at each backup, thus making it possible to view the threshold mechanism.
The operations are calculated in the order ≥ then > and finally = which obtains the highest priority.
A label defined by the following thresholds:
≥ 0 Label1
> 0 Label2
≥ 2 Label3
= 2 Label4
will take the values:
Label1 for value 0,
Label2 for value 1,
Label4 for value 2 and
Label3 for value 3.
Each state can be inscribable or not; in this case the writing value will have to be specified. If a state appears several times in a given label, it will not be possible to assign to it only a single writing value.
The Sauvegarder les modifications and Annuler buttons allow you to save the changes made to the label (display of details), or cancel them (back to the list).

7.7 User management pages

7.7.1 The list page

The list page allows you to browse through all the users.



7.7.1.1 Sorting

It is possible to sort the list by increasing or decreasing name of the users or workgroup. When sorting by workgroup is applied, only the users belonging to a group are displayed.

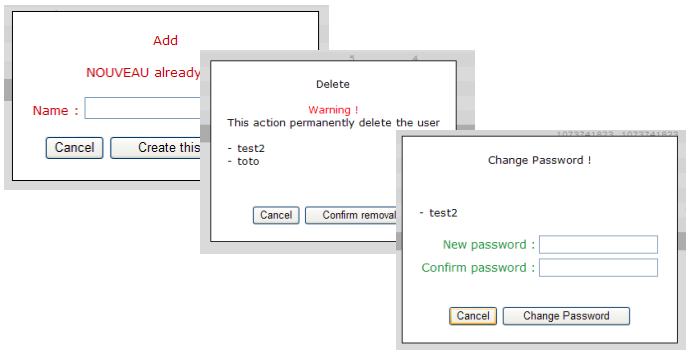
7.7.1.2 Filters

On the filter bar, a text field type filter allows filtering by a text included in the name of the user (*[Text]*).

7.7.1.3 Data

The table of users displays the name, its workgroup, and its read and write keys encoding its access rights, and a comment. The keys can be used only by a Boolean operation between their value and the key value of each level of rights, and are therefore cannot be interpreted directly. The comment allows you to freely fill in information on the user.

7.7.1.4 Action buttons



Add : Add a user: Opens a dialogue box which allows you to enter the user name and opens the edit page.
Delete : Delete one or more user(s): Opens a confirmation box allowing deletion of the selected users.
Change Password : Change password: Opens a dialogue box allowing you to change the password of the selected user. The new password must be repeated twice.
Profile settings : Customization: Directly opens the profile settings page of the selected user.

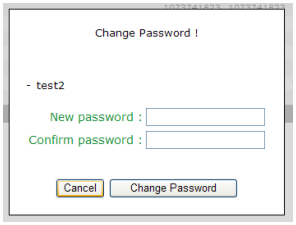
7.7.2 Detail page

7.7.2.1 Action buttons

These buttons correspond to the conventional actions of adding, change, duplication and deletion.
- Opens a dialogue box which allows you to enter the user name and opens the edit page.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting permanent deletion of the user.

7.7.2.2 Information on the user

- User name
- Workgroup to which the user belongs and which limits their visibility on certain sectors, curves, dashboards, etc.
- The read key encoding their access rights.
- The write key encoding their editing rights.
- The comment.



7.7.3 Edit page

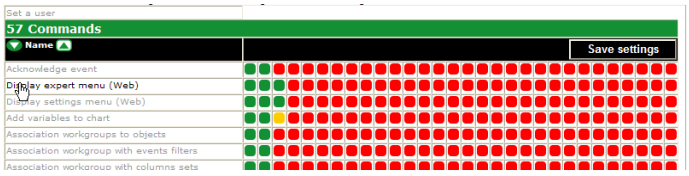
The edit page is a form allowing you to edit the settings of a user by specifying their name. It is possible to link it to a workgroup. The selection of ALL links all the workgroups to the user, allowing them visibility on all the Kerweb sectors and objects.
It is possible to insert read and write keys directly, knowing the rights that this value will result in. To insert rights easily, the command management pages offer an easy-to-configure interface.
The comment is a free field in which additional information on the user can be indicated.
The Terminer button confirms the information entered and returns you to the user list page. The Modifier le mot de passe button opens the dialogue box allowing you to change the user password.

7.8 User rights page

The user rights page is a single reading page allowing you to view directly the rights assigned to the users.
The first column displays the various Kerwin functionalities. The users displayed in the following columns form a cross table in which the three colours green, yellow and red indicate, respectively, that the user has a writing right, a right to viewing in read-only mode or no visibility over the functionality described on the row.

7.9 Command management pages

The command management page is a page displaying only a table which allows you to change the keys to the rights of each Kerwin functionality and to change the key to the rights of a selected user. A colour code then displays for each line the resultant of the two keys and then determines the user's right to the functionality.

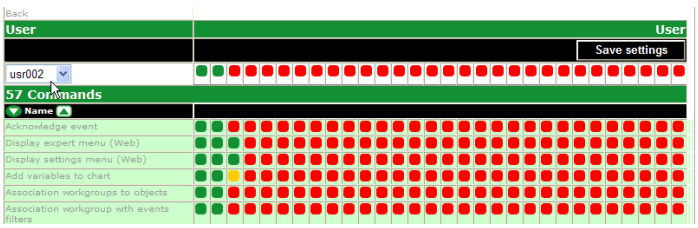


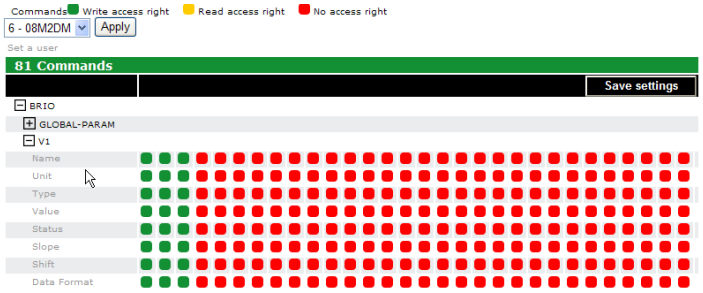
7.9.1 Change of a functionality key

The change of a functionality key is performed directly by clicking on one of the thirty images present on the corresponding line.
The image then changes in the following order: Yellow -> green -> red.
You can therefore establish 30 different levels of rights by combining the read access right, the write access right or no right for each functionality.
These changes impact all the users, whose keys are calculated by combinations of these thirty levels. They are confirmed by pressing the Save settings button.

7.9.2 Change of a functionality user key

Pressing the "Change a user" link reveals a selection list allowing you to select a user. When a user is selected, the thirty levels of user rights are displayed and the functionality lines adopt the colour corresponding to the resultant of the user rights with the functionality rights. Green for a write access right, yellow for a read access right and red for no right. In the same way, the user key can be changed by changing the image in the order Yellow -> green -> red. The modifications resulting from these changes can be seen directly from the line colour. In this configuration, it is no longer possible to change the functionality keys directly and confirmation of the Sauvegarder les modifications button saves the changes related to the user.



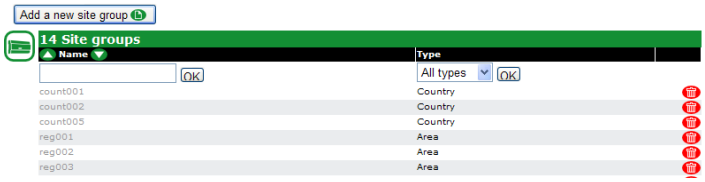


7.10 Remote configuration rights pages

The remote configuration rights page operates in the same way as the command management page. The rights are linked to the various folders and paths of each Brio model. Configuration will therefore be performed by starting by choosing the Brio model concerning the allocation of rights, then by performing parameters setup for each path in the same way as for the Change of a functionality key. It is as though it were a functionality.

7.11 Sector management pages

7.11.1 List page



7.11.1.1 Sorting

It is possible to sort the list by increasing or decreasing sector name.

7.11.1.2 Filters

On the filter bar, a text field type filter allows filtering by a text included in the name of the user (*[Text]*). A selection field allows you to filter a certain type of sector. The various sector types are:
The conventional sector with no geographic connotation.
The country.
The region.
The area.

7.11.1.3 Data

The sectors table displays the sector name and type. The last column allows you to delete the sector located on the row. A confirmation box is displayed when a deletion request is made.

7.11.1.4 Action buttons

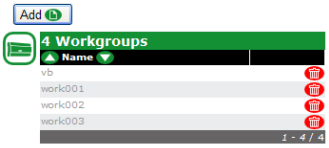
Add a new site group Allows you to open the edit page to create a new sector.

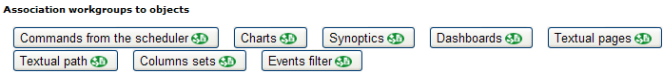
7.11.2 Edit page

The edit page allows you to enter the name of the sector to be changed or added. For an addition, it will be possible to specify the type of sector. For a change, it is not possible to change type.

7.12 Workgroup management pages

7.12.1 List page





7.12.1.1 Sorting

It is possible to sort the list by increasing or decreasing workgroup name.

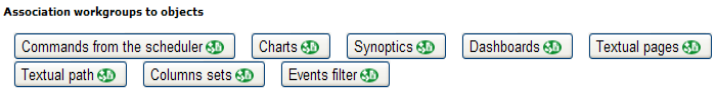
7.12.1.2 Data

The workgroup table displays the name of the group. The last column allows you to delete the group located on the row. The group will not be deleted if it is being used (association with a sector or an object). To delete a group, you must check that the associations on each object are deleted and that the list of sectors of the group is empty.

7.12.1.3 Action buttons

Add Allows you to open the edit page to create a new group.

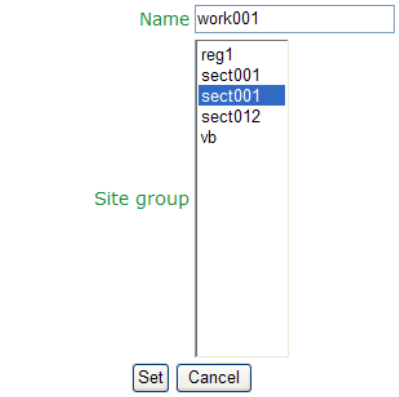
7.12.1.4 Association buttons



Textual path Opens the association page which allows assignment of objects to workgroups. The various types of objects that can be associated are:

- Commands from the scheduler.
- Charts.
- Synoptics.
- Dashboards.
- Exploitation pages.
- Exploitation directories.
- Column sets.
- Event filters.

7.12.2 Edit page



It is possible to define in the edit page the name of the workgroup and the sectors which form it. Saving is not possible if no sector has been selected. It is possible to select several sectors.

7.12.2.1 Auto-association

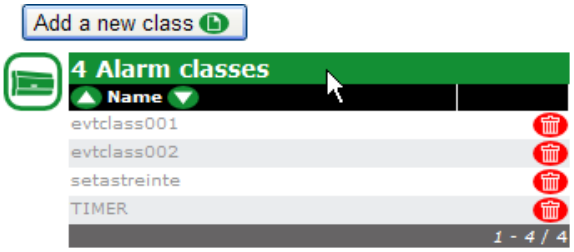
The auto-association feature will automatically assign objects of type Column sets or event filters to workgroups that will be created.

For Column sets this is normally activated for the “Default” Column set and can be deactivated thereafter. For user defined Column sets, this property is normally not activated and can be activated thereafter.

For Event filters this property is normally activated for the “Alarms” and “History” event filters and can be deactivated thereafter. For user defined filters, this property is normally not activated and can be activated thereafter.

7.13 Alarm class management pages

7.13.1 List page



7.13.1.1 Sorting

It is possible to sort the list by increasing or decreasing alarm class name.

7.13.1.2 Data

The alarm class table displays the name of the class. The last column allows you to delete the class located on the row. The class will not be deleted if it is being used (in a filter criterion, for example). To delete a class, you must therefore make sure that the filters or events are no longer using it.

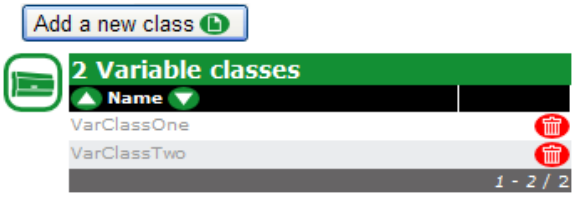
7.13.1.3 Action buttons

Ajouter Allows you to open the edit page to create a new class.

7.13.2 Edit page

It is possible to define in the edit page the name of the new alarm class or of the alarm class to be changed.

7.14 Path class management pages



7.14.1 List page

7.14.1.1 Sorting

It is possible to sort the list by increasing or decreasing path class name.

7.14.1.2 Data

The path class table displays the name of the class. The last column allows you to delete the class located on the row. The class will not be deleted if it is being used (in a filter criterion). To delete a class, you must therefore make sure that the filters or variables are no longer using it.

7.14.1.3 Action buttons

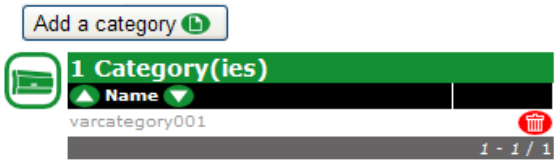
Ajouter Allows you to open the edit page to create a new class.

7.14.2 Edit page

It is possible to define in the edit page the name of the new path class or of the path class to be changed.

7.15 Path nature management pages

7.15.1 List page



7.15.1.1 Sorting

It is possible to sort the list by increasing or decreasing path nature name.

7.15.1.2 Data

The path nature table displays the name of the nature. The last column allows you to delete the nature located on the row. The class will not be deleted if it is being used (in a filter criterion, for example). To delete a nature, you must therefore make sure that the filters or variables are no longer using it.

7.15.1.3 Action buttons

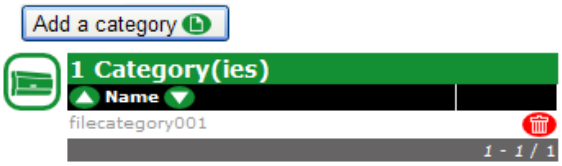
Allows you to open the edit page to create a new nature.

7.15.2 Edit page

It is possible to define in the edit page the name of the new path nature or of the path nature to be changed.

7.16 File nature management pages

7.16.1 List page



7.16.1.1 Sorting

It is possible to sort the list by increasing or decreasing file nature name.

7.16.1.2 Data

The file nature table displays the name of the nature. The last column allows you to delete the nature located on the row. The class will not be deleted if it is being used (in a filter criterion, for example). To delete a nature, you must therefore make sure that the filters or files are no longer using it.

7.16.1.3 Action buttons

Allows you to open the edit page to create a new nature.

7.16.2 Edit page

It is possible to define in the edit page the name of the new file nature or of the file nature to be changed.

7.17 Column selection management pages

7.17.1 List page

7.17.1.1 Sorting

It is possible to sort the list by increasing or decreasing name.

7.17.1.2 Filters

A text field type filter allows filtering by a text included in the name of the selection (*[Text]*).

7.17.1.3 Data

Each line contains the name of the selection in the form of a link. This link opens the detail page of the selection.

7.17.1.4 Action buttons

The generic functions of adding, copying and deleting are available from the list. It is also possible to display events directly with the column selection ticked beforehand.

7.17.2 Detail page

7.17.2.1 The edit bar

This bar corresponds to the conventional actions of adding, change and deletion.
- The Add button opens a dialogue box allowing you to enter the name of the new selection.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting deletion of the selection.

Some selections are created directly by the system and are not modifiable. and are not available in this case.

A selection box allows you to access the details of another selection directly; a button allows quick access to the list.

7.17.2.2 Body of the page

The detail page presents the column selection structure. On its left-hand part, two buttons allow you to obtain access directly to to the edit page of the selection and the events presented with the column selection. On its right-hand part, a table presents the columns that will be displayed from right to left on the events table.

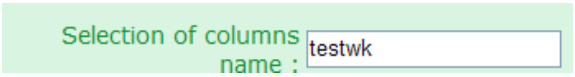
7.17.3 Edit page

This page is presented in the same structure as the detail page. It is also possible to modify the table located in the right-hand part.

To modify elements, you can grab a box containing the column to be modified and drag it (). The released element will take up its new position, higher () or lower (). An element released outside of the edit area will be deleted from the selection (). It is possible to restore an element to its initial position ().

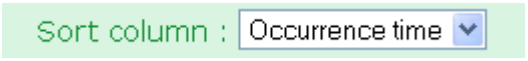
The newly displayed left-hand table allows you to add columns. A clicked element will be inserted at the last position. It is also possible to grab an

element of this list directly to insert it on a given position. An element of this list released outside of the edit area after placing will not be inserted.



It is also possible to change the name of the selection during editing.

The “sort column” option allows you to set the order in which the event list is sorted by occurrence time (default value) or reception time:



A selection cannot be saved with no column.

The

buttons allow you to save dragging and renaming actions (display of details) or cancel them (back to the list).

7.18 Event filter management pages

7.18.1 List page

7.18.1.1 Sorting

It is possible to sort the list by increasing or decreasing name.

7.18.1.2 Filters

A text field type filter allows filtering by a text included in the name of the filter (*[Text]*).

7.18.1.3 Data

Each line contains the name of the filter in the form of a link. This link opens the detail page of the filter.

7.18.1.4 Action buttons

The generic functions of adding, copying and deleting are available from the list. It is also possible to display events directly with the filter ticked beforehand.

7.18.2 Detail page

7.18.2.1 The edit bar

This bar corresponds to the conventional actions of adding, change and deletion.
- The Add button proposes a list of types which can be selected to add a filter.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting deletion of the filter.

Some filters are created directly by the system and are not modifiable. and are not available in this case.

A selection box allows you to access the details of another filter directly; a button allows quick access to the list.

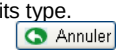
7.18.2.2 Body of the page

The detail page displays the various criteria (one per line) of the filter. This criterion is defined by:
- A column displaying the filtered field "Astreinte" call route, Path classes, Event classes, Site, Country, Region, Router, Sector, Area, Astreinte status, Nature, Severity, Status, Type, Date of acknowledgement, Date of occurrence, Date of reception, Date of return to normal, Level, Elapsed time, Path)
- A column displaying the type of filter ("Different from", "Does not exist", "Exists", "Less than", "Greater than", "Equal to", "Less than or equal to", "Greater than or equal to", "Belongs to", "Resembles")
- An optional column indicating, where applicable, the value of the filter (numeric, date, period or character string)

Two buttons allow you to obtain access directly to the edit page of the filter and the events presented with this filtering.

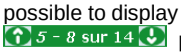
7.18.3 Edit page

The edit page is presented in the same structure as the detail page; data are displayed in modifiable fields. Each field is freely editable; its modification may result in a change in the data entry interface corresponding to its type.
The



buttons allow you to save dragging and renaming actions (display of details) or cancel them (back to the list).

7.19 Brio remote configuration history page

The history page displays the configuration SMS messages programmed and sent by Kerwin to the various RTUs in decreasing order of date. It is possible to display the oldest operations by browsing through the 

pages or specifying start or end of list dates.

For greater precision, it is also possible to filter the list for a given site or status.

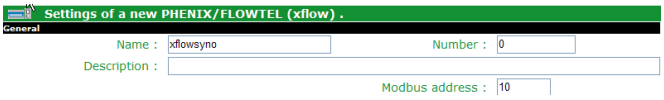
The information available in the table is the information making up the configuration table. The first two columns display the name of the RTU in question and the SMS message, its number and its date of programming. For each of the rows, the following columns display one or more actions contained in the SMS message on three columns: the type of action (read or write), the label of the path impacted by the configuration action, the value of the write parameter, and the user initiating the action.

The management menu (site mode)

7.20 Site configuration pages

7.20.1 The Edit page

The configuration page for a site allows you to configure all the characteristics of a site.



7.20.1.1 General

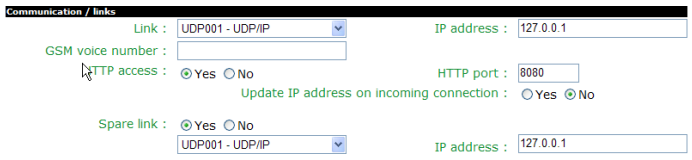
The name and description of the site are freely editable fields. The "Number" and "Modbus address" fields must be filled in for sites of the RTU type (there is no number for internal sites). The fields "control table" (Sofrel), "address of the event area" and "selection word" (W@de) are fields reserved for these types of RTUs.

7.20.1.2 Location

The location tab allows RTUs to be grouped in time and space. To do so, sectors, area, country and region are available. The sector influences the visibility of the site on the workgroups. The time zone allows the times of occurrence of events to be synchronized between several RTUs located in different time zones.

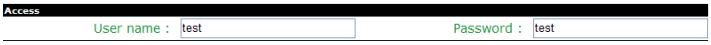
7.20.1.3 Management

The Management tab makes it possible to identify the device in the supervisor's organization by a group, the device class and an index, the device level. If a default class is set in the Kerwin configuration, this class is suggested on the creation of device. The level field set a free value between 0 and 255.



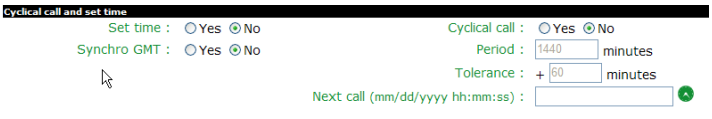
7.20.1.4 Communication/links

The communication tab can be used to set the various site access parameters. The main link is the link used by Kerwin to obtain access to the site during repatriation of paths or files, during auto-configuration operations, backups or remote controls.
Depending on the type of link, the "phone" or "address" field must be filled in.
The "HTTP access" option allows insertion in the application on the site details or else on the synoptics, direct links to the home page of the RTU's Web server. For this option to be operational, the HTTP port of the RTU must also be entered.
The option "Update IP address on incoming connection" allows the RTU to change its address on the Kerwin depending on its configuration. This makes it possible to maintain satisfactory operation of connections in the event of a change in the RTU's IP address.
The "Spare link" option allows you to define another link to obtain access to the RTU in the event of a main link failure.



7.20.1.5 Access

User name and password used by Kerwin for connection to the site when retrieving or sending data. The password should permit access to the functionalities requested on the RTU. For some types of units not managing the user name, only the password is taken into account.



7.20.1.6 Cyclical call and set time

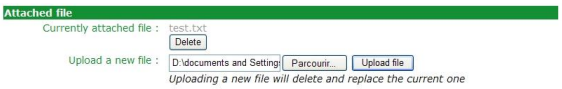
This tab allows you to:

- Program the site so that its time is reset upon each call by the supervisor, by selecting "Set time".
- Synchro GMT stipulates that the RTU is configured in GMT time.
- The cyclical call makes it possible to monitor routine calling of the unit to test its satisfactory operation. This frequency is expressed in minutes, and the tolerance indicates the time slot during which the call must be received. The next call indicates the date from which monitoring will be actuated.

7.20.1.7 Additional information

This section includes free fields usable for referencement or management of device.

- The reference field is a text field with a maximum length of 40 characters, it doest not authorize multiline input.
- The note field is a text field with a maximum length of 255 characters, multiline input is authorized here.



7.20.1.8 Attached file

In management mode, the attached file appears in a separate section, at the bottom of the page.
This section is available only for existing sites. It is impossible to upload a file for a site during its creation.
This section layout changes if there is an attached file or not.
A “Browse” button allows selecting a file to upload; the “Upload file” button allows launching upload.
For access to this section, the user had to have the right “Upload file” in write mode.
Three levels of settings allow to restrain the use of this functionality. If a file does not satisfy those limitations, it will be rejected:

7.20.1.8.1 Kerwin settings

Specifications of the uploaded file depend on Kerwin settings. In the configuration file, the section `[file storage]` contains the following parameters:

- ✓ `max_file_size`: the maximum size allowed for a stored file, in Kbytes. Default value 1024 Kb (1 Mb).
- ✓ `max_file_storage_space`: the maximum size allowed for all the uploaded files, in Kbytes. Default value 1048576 Kb (10 Gb).
- ✓ `allowed_file_extensions`: a list of authorized file types, separated by commas. Default value *.xls;*.pdf. Example:
  `allowed_file_extensions=*.xls;*.pdf`

It is not possible to configure the uploaded files storage directory.

7.20.1.8.2 Kerweb settings

Kerweb configuration file allows to restrain the maximum http request size. This setting will be used for the entire application :

- ✓ `max_http_request_size`: Maximum request size, default value 1030Kb

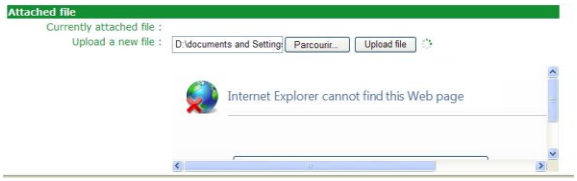
```
<location path="Default Web Site/Kerweb2">
    <system.webServer>
      <handlers accessPolicy="Read, Execute, Script" />
      <security>
        <authentication>
          <anonymousAuthentication enabled="true" />
        </authentication>
        <requestFiltering>
          <requestLimits maxAllowedContentLength="3000000000" />
        </requestFiltering>
      </security>
      <httpLogging dontLog="false" />
    </system.webServer>
  </location>
```

Big files may be blocked directly by IIS, because it has a built-in http request size limitation. The maximum request size may change between the different IIS versions, but with IIS7 and higher it can be modified :

- ✓ First, the request filtering service has to be activated in the IIS services (Server manager -> Roles -> Role Services)
- ✓ Then, open the configuration file : 'C:\Windows\System32\inetsrv\config\applicationHost.config'
- ✓ Search for the Kerweb site configuration section (default <location path="Default Web Site/Kerweb2">)
- ✓ A <requestFiltering> section has to be inserted in the <security> section, as shown in the example
- ✓ The maxAllowedContentLength attribute contains the maximum http request size, in bytes. Adjust this value according to your needs.

7.20.1.8.4 Restrictions priority and error messages

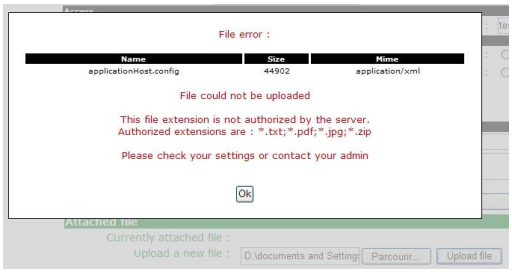
The previously described restrictions follow a strict hierarchy:



- ✓ The **IIS** error has top priority, it will be triggered before the others if the file does not fit. It will lead to an 'Page not found' error.

Query error
Schneider Electric
The http request size exceeds the maximum authorized size
Please check your settings or contact your admin
[back]
Schneider Electric Telecontrol

- ✓ Then comes the **Kerweb** maximum http request size error. A specific kerweb error page will be displayed in this case.

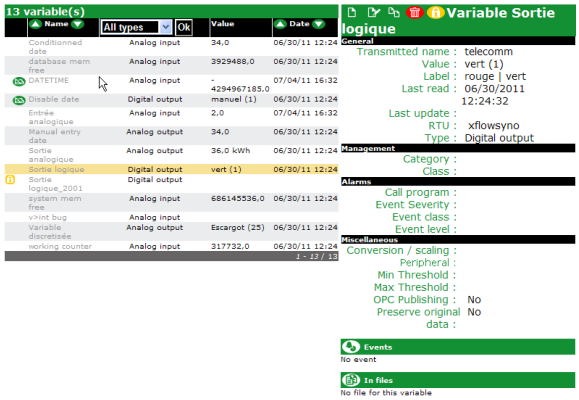


- ✓ The last filters are the **Kerwin** filters. If the data server rejects a file, an error popup will appear, explaining clearly why the file has been rejected.

For the files/requests size, it is highly recommended to have the most permissive setting on IIS, and the most restrictive on Kerwin. If IIS is the most restrictive, its error will trigger immediately, without letting Kerweb and Kerwin run their tests.

7.20.1.8.3 IIS settings

7.21 Site variables pages



7.21.1 The list/detail page

The variables page displays in the same view the list and details of the selected variable.

7.21.2 List

7.21.2.1 Sorting

It is possible to sort the list by increasing or decreasing name or by the date of last reading of the variable's value.

7.21.2.2 Filters

A selection filter allows only a certain type of variable to be displayed. The types proposed depend on the type of RTU. The possible types are counter, time counter, pulse counter, degree days, analogue input/output, digital input/output.

7.21.2.3 Data

Each line contains the name of the variable in the form of a link. This link allows you to select the variable and display its details. If the variable is saved in a file, an icon allows you to view an instantaneous chart showing the variable's history.
The second column displays the variable type. The third column presents the value or state of the variable. The last column indicates the date of last reading.

7.21.3 Details

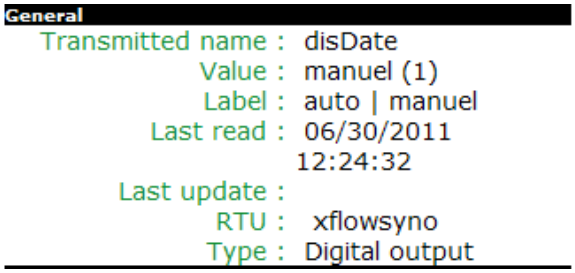
7.21.3.1 The edit bar

This bar corresponds to the conventional actions of adding, change and deletion.

- The Add button proposes a list of types available for adding taking into account the type of RTU and the files already saved.
- The Change button opens the edit page.
- The Duplicate button copies the selected variable and displays the copy.
- The Delete button opens a confirmation box requesting deletion of the file. This deletion erases from the database all the data belonging to the file.
- and allow locking of a variable in service or unlocking of a disabled variable. If the variable is locked, a band indicates the DISABLED status.

7.21.3.2 Body of the page

7.21.3.2.1 General



The General tab displays the following information:

- The label transmitted by the RTU which may be different from the variable name set on the supervisor.
- The value or state of the variable, depending on whether the variable is linked to a unit or a label.
- The unit or label of the variable.
- The date of last reading.
- The date of last updating, indicating the last change of value.
- The name of the site to which the variable belongs.
- The type of variable (counter, time counter, pulse counter, degree days, analogue input/output, digital input/output).

7.21.3.2.2 Management

The Management tab makes it possible to identify the variable in the supervisor's organization by two separate groups.

- Variable nature (allowing the creation of models).
- Variable class.

7.21.3.2.3 Alarms

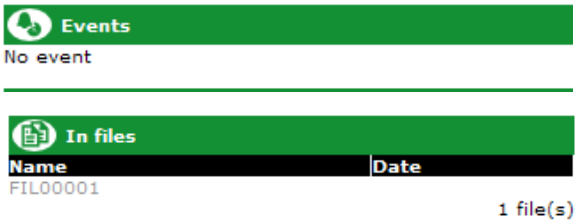
- The "astreinte" (on call) program: indicates whether the variable is linked directly to an "astreinte" program.
- Associated event severity: Specifies whether the events generated by the changes of variable value are critical, minor, or in indication.
- Associated event class: Indicates that the events generated by the changes of variable value are defined in an alarm class.
- Associated event level: Value from 0 to 255 making it possible, by classifying the events, to optimize the "astreinte" filters and criteria.

7.21.3.2.4 Miscellaneous

- Conversion/scaling: Indicates any conversion undergone by the value between its reading on the RTU and its display on the various screens of the supervisor (history, curves, synoptics, etc.).
- Min. threshold:
- Max. threshold:
- OPC publishing:
- Preserve original data: Indicates whether the data received by the RTUs before conversion are fully preserved in the histories. This option allows re-application of a conversion of original data on the histories.

7.21.3.2.5 Associated events

Displays an excerpt of the last events generated by the changes of value of the variable, specifying the date of reception, the nature of the event and the tripping value.

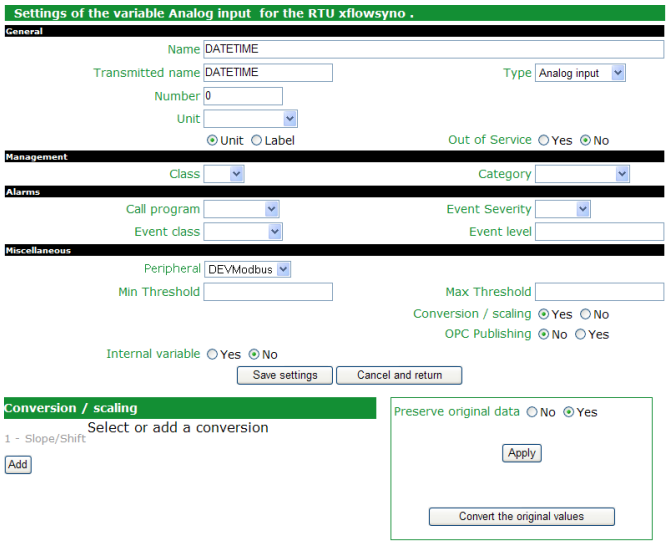


7.21.3.2.6 Recording in files

Displays the list of the site's files in which the variable is saved, specifying the name of the files and the date of last retrieval of the values.

7.21.4 Edit page

The edit page allows you to create or modify a variable.
A main section consisting of four tabs allows editing of the variable.
Another section consisting of two forms allows conversion management and management of the original data before conversion.



7.21.4.1 Editing properties

7.21.4.1.1 General

The edit page allows you to create or modify a variable.
The fields to be filled in are:

- The full name of the variable, the supervisor's reference.
- The label transmitted, a label corresponding to the name of the variable on the RTU.
- The type of variable (counter, time counter, pulse counter, degree days, analogue input/output, digital input/output).
- The variable's number: This number must be unique for a given site.
- For digital types, the digital label; for analogue types, an analogue unit or label. The "label/unit" radio button allowing either of the lists to be displayed.
- It is possible to set the variable's parameters directly disabled at its creation or modification and thus inhibit its alarms.

7.21.4.1.2 Management

- The Management tab allows the variable to be organized within the supervisor in two fields corresponding to the nature and class of the variable.

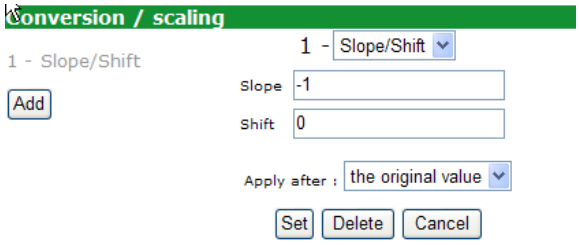
7.21.4.1.3 Alarms

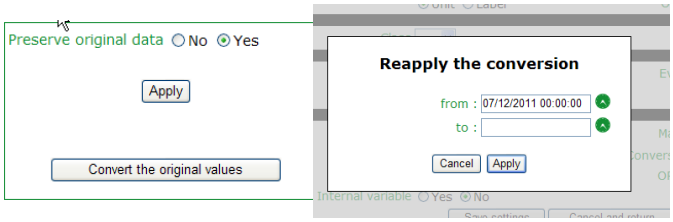
The Alarm tab can be used to set the rules and organization of the events generated by the changes in value of the variable.
It is possible to attach to these events:

- An "astreinte" (on call) program which corresponds to the program that will be applied upon the occurrence of an event on this variable.
- The associated event severity that can be configured with the values "critical", "minor" or "indication".
- The event class.
- The event level, a value from 0 to 255 allowing events to be organized in the form of a scale to which can be matched criticality levels or "astreinte" criteria.

7.21.4.1.4 Miscellaneous

The thresholds allow the size of the charts display to be limited to a range between the min. threshold and max. threshold.
Conversion/scaling opens a conversion configuration interface detailed in the following section.
It is possible to set the peripheral belonging to the variable.





7.21.4.2 Conversion/scaling

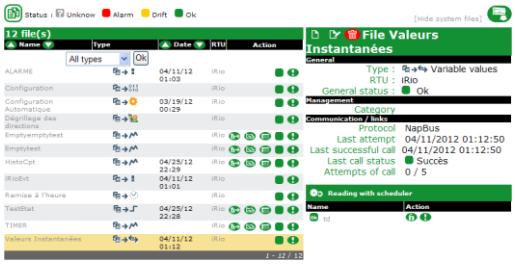
7.21.4.2.1 Conversion settings

It is possible, by selecting Ajouter , to concatenate several conversion formulas: scaling, slope/shift or min./max. Each operation can be placed following another one, or as the first operation by selecting "after the original value".

7.21.4.2.2 Original data management

The original data (before conversion) can be preserved in the files. When the "preserve original data" option is confirmed, and starting from this confirmation, the data are preserved both in their original value and in their converted value. This makes it possible to re-apply to the original values the conversion already defined or recently modified. A dialogue box allows the conversion operation to be limited by dates.

.

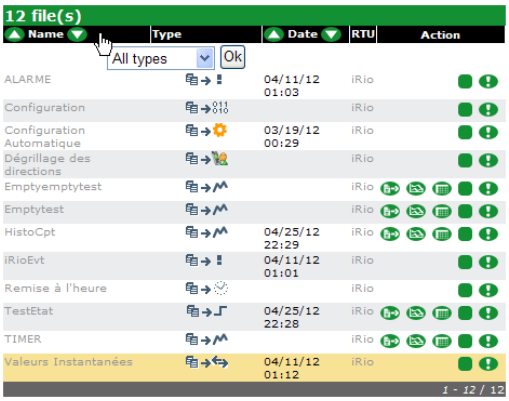


7.22 Site file pages

7.22.1 The list/detail page

The links page displays in the same view the list and details of the selected file.

7.22.2 List



7.22.2.1 Sorting

It is possible to sort the list by increasing or decreasing name or by the date of last successful retrieval of the file.

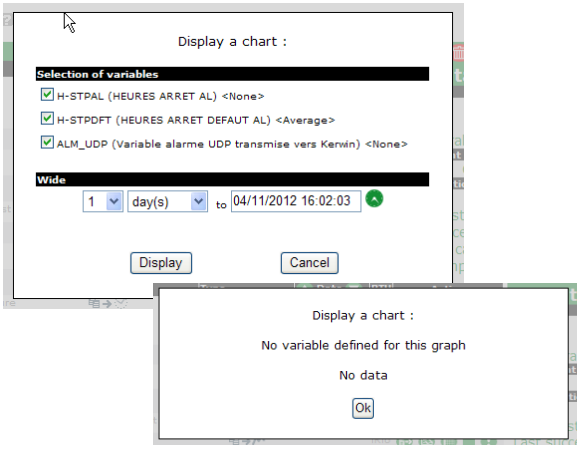
7.22.2.2 Filters

A selection filter allows only a certain type of file to be displayed. The types proposed depend on the type of RTU. For a site of the Xflow type, it is possible to filter files of the raw configuration, events or measure type.

7.22.2.3 Data

Each line contains the name of the file in the form of a link. This link allows you to select the file and display its details.
The second column displays the file type in the form of an icon. The next column displays the date of last retrieval of the file. The fourth column displays the name of the file's proprietor site. The action column displays four icons making it possible to:

- : open the page allowing the data to be exported in text file form.
- : display a chart based on data of the file. A dialog box allows selecting the variables to integrate on the chart and the wide to display. The submission of form opens a chart window which contains the selected variables.
  If the file is empty or not any variable is added to the file, a singles error message is displaying.
- : display the data in table form in a new page.
- or : view the status of each file in the list.
- : start immediate retrieval of the file.

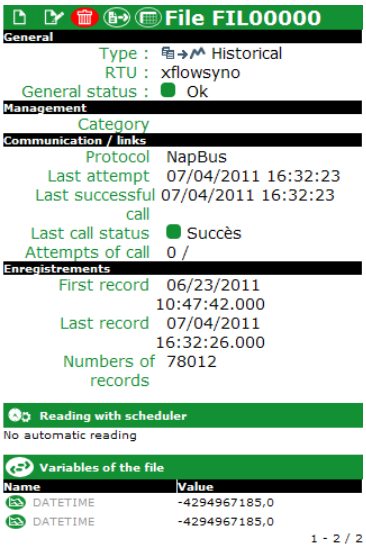


7.22.3 Details

7.22.3.1 The edit bar

This bar corresponds to the conventional actions of adding, change and deletion.

- The Add button proposes a list of types available for adding taking into account the type of RTU and the files already saved.
- The Change button opens the edit page.
- The Delete button opens a confirmation box requesting deletion of the file. This deletion erases from the database all the data belonging to the file.
- Opening of the page allowing the data to be exported in text file form.
- Opening of the page allowing the data to be exported in text file form.



7.22.3.2 Body of the page

7.22.3.2.1 General

Displays:

- the file type (Screening of call routes, Set time, Instantaneous values, Automatic Configuration, Details, Synthesis, Events, Raw Config, Measures, Balance, Histories, Histogram, VIRTUAL, or State).
- The name of the site to which it belongs.
- The general status of the file: unknown, default, deviation or correctly retrieved.

7.22.3.2.2 Management

The Management tab indicates whether the file has been catalogued by file nature.

7.22.3.2.3 Communication/links

Displays:

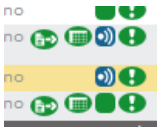
- The protocol (XModem, NapBus, default, SofBus, DatBus, TRS2, Trimaran, ASCII, PERAX, AquaPac, Radcom, Barton, or Modbus 2).
- The date of the last call attempt.
- The date of the last call during which repatriation was successful.
- The status of the last call.
- The number of call failures out of the maximum number of call attempts.

7.22.3.2.4 Records

Displays:

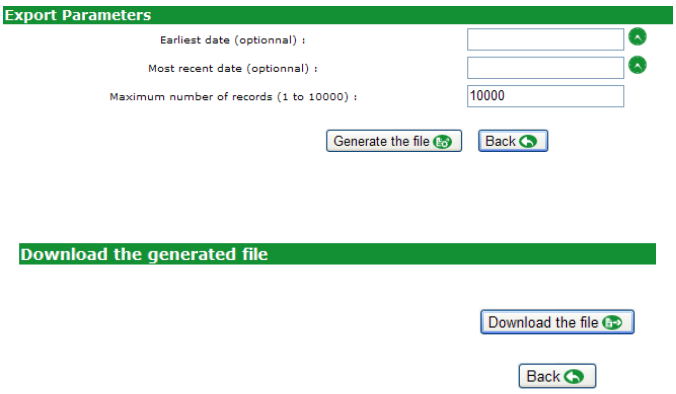
- The date of the first record in the file (start of file).
- The date of the last record in the file (end of file).
- The number of records contained in the file.

7.22.4 Data refreshing



The data on this page are refreshed constantly and allow you to see the connections and repatriations in progress on the files of a site.
When a file is undergoing repatriation or has been the subject of a request not executed (without reaching the maximum number of attempts before failure), the status icon displays the connection in progress. These icons are updated constantly and adopt a green status (successful) or red (failure) when the call has been closed.
If the site selected in the page is the subject of a request, a "The file is currently being read" band is displayed. This band and the call and date of last call status information is also updated and thus allow monitoring of the connection and correct execution of repatriation.

7.22.5 Data export page

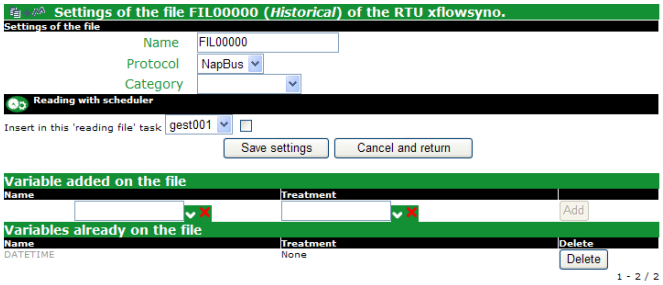


The data export page is displayed in the form of a form on which can be specified:

- The oldest date of the records. If this value is not entered, the range will be limited by the number of records in the file or the maximum number of records requested.
- The most recent date. If this value is not entered, the range will be limited by the last record in the file.
- Maximum number of records. This value limits the number of lines returned. If this value is not entered, all the records, limited by the oldest date and most recent date values, will be returned.

Upon confirmation of the form, the file downloading page allows you to save or view it. The file is a text type file.

7.22.6 Edit page



7.22.6.1 General

The edit page allows you to create or modify a file.
The fields to be filled in are:

- Filename
- The protocol used for retrieval of the file; the protocol depends on the file type. (XModem, NapBus, default, SofBus, DatBus, TRS2, Trimaran, ASCII, PERAX, AquaPac, Radcom, Barton, or Modbus 2).
- Where applicable the file's nature (allows sorting on the files).

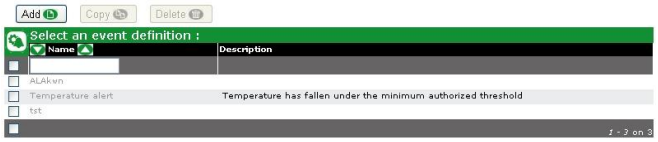
Retrieval by the scheduler allows retrieval of the file to be associated with an already configured scheduler task. By ticking the box, the file will be added to this task.

7.22.6.2 Path management

It is possible to add paths to the file by selecting a variable in the "Name" field and applying an operation to it. The list of variables included in the file is displayed in a table in which each variable can be removed from the file by pressing the Supprimer button.

7.1 Site events definition pages (Xflow sites)

The events definitions are available only for certain types of sites (Xflow). The configuration pages will be visible only for sites of this type.



7.1.1 The list/detail page

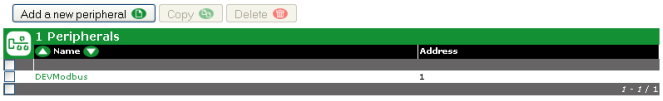
The events definitions page displays the list of definitions of events available for the selected site.
It is possible, from this page, to add, copy, delete and change event definitions.

7.1.2 Edit page

This page allows you to set the name and description of an event definition. The name is compulsory, while the description can be blank.

7.2 Peripheral pages (Xflow and Teleflo sites)

The peripheral definitions are available only for certain types of sites (Xflow/Teleflo). The configuration pages will be visible only for sites of this type.



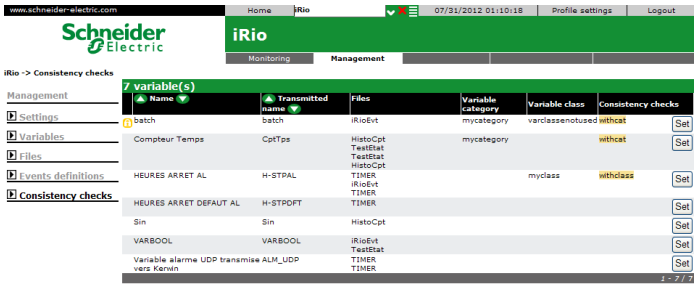
7.2.1 The list/detail page

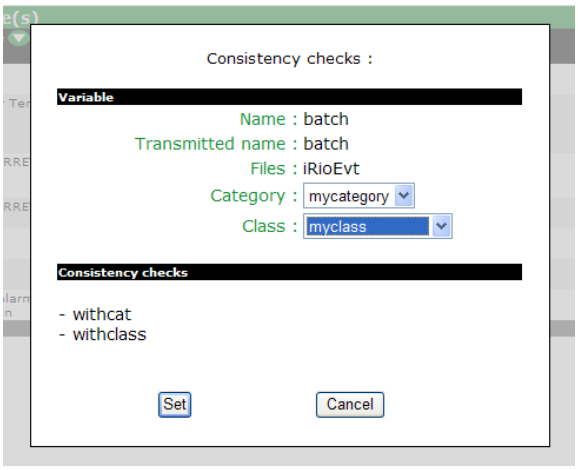
The peripheral definitions page displays the list of peripherals available for the selected site.
It is possible, from this page, to add, copy, delete and modify a peripheral.

7.2.2 Edit page

This page allows you to set the name and description of a peripheral. The name is compulsory, while the address can be blank.

7.3 Consistency checks page (Depending of consistency checks module)





The consistency checks page displays the list of variable which are recorded at least one data file. This page is available with the consistency check red right only if the module is activated on Kerwin.

7.3.1.1 Sorting

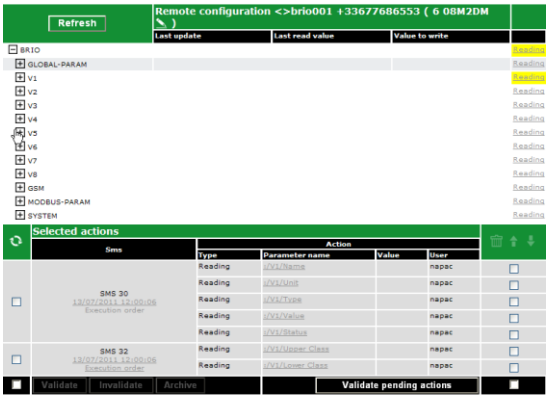
It is possible to sort the list by increasing or decreasing name and by transmitted name if option is activated.

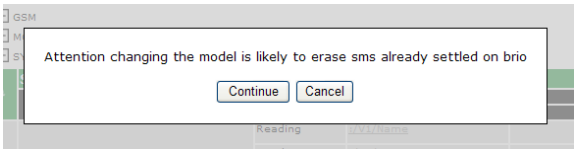
7.3.1.2 Data

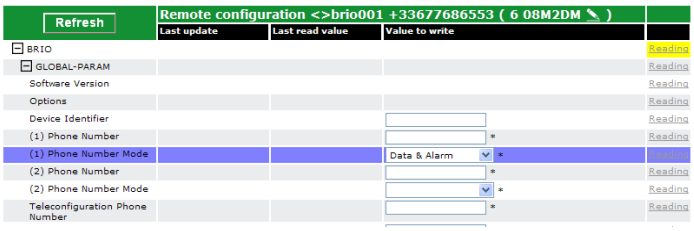
The first column indicates if the variable is locked or active.
The next column displays the name of the variable.
If the option “display transmitted name” is on, the corresponding column is displayed.
The next column display the list of data files in which the variable is recorded.
The two following columns display the category and class of the variable.
Two variable in the « __customer.xml » configuration file allow to inhibit the displaying of each column with “consistency_class=0” and “consistency_category=0”.
These two properties are criterion for match between variable and consistency checks.
The last column displays the list of consistency checks with the current setting of categories and classes.

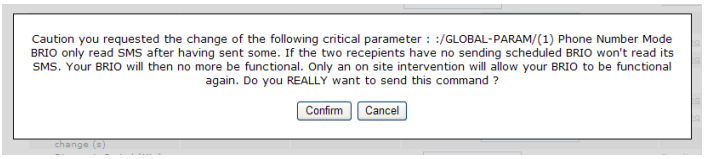
7.3.1.3 Action buttons

On the consistency checks column, a “set” button is available if the user has the write rights. This button triggers the open of a dialog box to change category or class of variable. When, one of these properties is changed, the list of the consistency checks matching with this new configuration is automatically updated.
The “set” button allows saving the change, the “cancel” button allows closing dialog box unless saving change.
When a change is saved, the page is displaying again, with the new configuration.








Caution you requested the change of the following critical parameter : :/GLOBAL-PARAM/(1) Phone Number Mode
BRIO only read SMS after having sent some. If the two recepients have no sending scheduled BRIO won't read its SMS. Your BRIO will then no more be functional. Only an on site intervention will allow your BRIO to be functional again. Do you REALLY want to send this command ?
Confirm
Cancel

7.4 Site remote configuration pages (BRIO/W310 sites)

BRIO (W310) remote configuration allows you to modify or read the configuration of the RTU by SMS. The configuration page allows you to prepare read or write requests by grouping them by SMS and initiating sending of the SMS messages. The history page allows you to view the actions performed over a defined period of time.

7.4.1 Site configuration page

The header of the main table allows you to select the BRIO model. The upper part of the screen shows the BRIO configuration in the form of a tree structure. It allows you to select a site configuration element. The following part presents the SMS messages consisting of these various actions and makes it possible, via their status, to manage the actions and SMS messages.

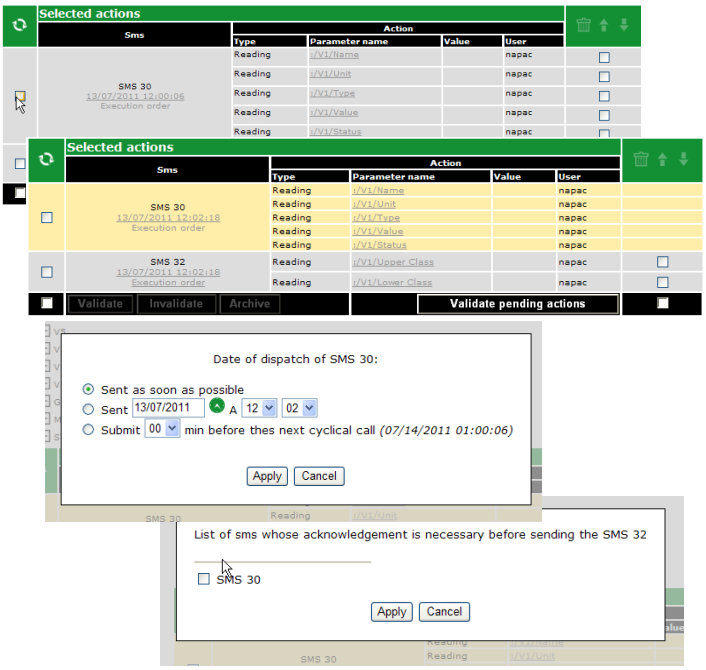
7.4.1.1 Change of model

It is necessary to specify on which BRIO model the configuration is based. This model must correspond to the real model of the RTU to be configured. For a BRIO already associated with a model, the change must be confirmed: the actions already saved and not compatible from one model to another are deleted during the change.

7.4.1.2 Read and write actions

The tree structure corresponding to the model allows you to choose the parameter to read or write. Modification of the field in the "Value to be written" column makes it possible to save a write action. Confirmation of the "Read" link in the last column makes it possible to save a parameter reading action.
For these two actions:

- The boxes located at the intersection of the parameter and the column corresponding to the action take on an orange or yellow background colour.
- The boxes corresponding to the parent directories are also coloured, thus making it possible to identify the actions currently requested when the menu is folded up.
- The line of the last parameter requested in read or write mode is selected (blue coloured background).
- When the parameter has a special influence on the configuration, a request for confirmation is displayed.
- The request is the subject of an SMS message or is inserted in an SMS already prepared.



7.4.1.3 SMS management

Read and write requests are stored in SMS messages.

7.4.1.3.1 Column 1: Allows you to select SMS messages to initiate the following actions

- Refresh: Requests regeneration of the table and statuses.
- **Validate** The confirmed SMS messages are ready to be sent immediately or at the time for which they are programmed.
- **Invalidate** SMS messages which are not undergoing programming are suspended.
- **Archive** The SMS messages acknowledged or in error are removed from the table and can be found in the history.

7.4.1.3.2 Column 2: Allows you to manage the scheduling of SMS sending

- The link on the date, set to the current time, allows you to change this date to delay sending. It is possible to request immediate sending (in compliance with the queue), sending at a programmed time or sending lagged by a number of minutes before the BRIO cyclical call (allows the SMS message to be taken into account by the BRIO as of its next cyclical call).
- As of the second SMS message, an execution order link is available. In a dialogue box you can list the SMS messages whose actions
- should be taken into account before the SMS message to be scheduled is sent.
- The SMS messages are sent in order, taking into account the following two parameters:
  - the time lag;
  - the acknowledgement of certain SMS messages to validate the sending of others.

7.4.1.3.3 Column 3: Indicates the type of each action inserted in the SMS message

7.4.1.3.4 Column 4: Indicates the full path of the action in the tree structure

This takes the form of a link whose activation triggers the corresponding line selection on the table of actions (blue coloured background).

7.4.1.3.5 Column 5: Specifies the requested write value

7.4.1.3.6 Column 6: Specifies the name of the user initiating the action request

7.4.1.3.7 Column 7: Allows you to select actions to initiate the following actions

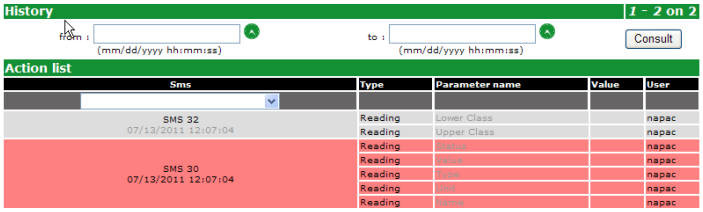
The possible reorganization actions are:

- Deletion of the action which is therefore excluded from the SMS message.
- Upward shift (which allows a request to be shifted to an upstream SMS message). The first action can also be shifted upward by creating a new SMS message.
- Downward shift (which allows a request to be shifted to a downstream SMS message). The last action can also be shifted downward by creating a new SMS message.

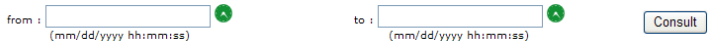
The actions will in the end be performed from the bottom upward.

Valider les actions en attente Allows you to confirm the sending of all SMS messages in compliance with their programming.

7.4.2 Site history page



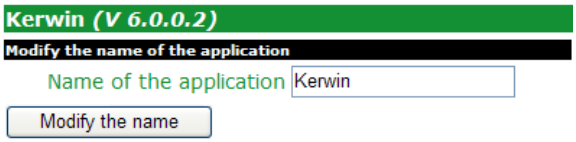
The history page displays the configuration SMS messages programmed and sent by Kerwin to the site in decreasing order of date. It is possible to display the oldest operations by browsing through the 5 - 8 sur 14 pages or specifying start or end of list dates.



For greater precision, it is also possible to filter the list for a given status.

The information available in the table is the information making up the configuration table. The first column displays the SMS message, its number, and its programming date. For each of the rows, the following columns display one or more actions contained in the SMS message on three columns: the type of action (read or write), the label of the path impacted by the configuration action, the value of the write parameter, and the user initiating the action.

8 The parameters setup menu (general mode)



8.1 Options page

The options page allows you to change the name of the application. This name appears in the menu band and in the Ariadne's thread on each page of the Kerweb site.

8.2 Link configuration pages

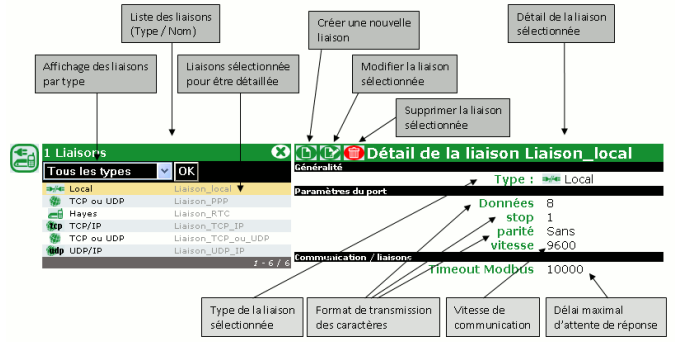
Access: Parameters setup/Links

8.2.1 Definition of links

When the telephone line is used to connect to a RTU, the modem must be configured appropriately. This configuration is performed by the definition of a link. The link will indicate how the RTU communicates physically. This link may be re-used to connect to all RTUs which communicate in the same way.

Management / Sites / <selection of a site> / Configuration of the site: The link defined on this page will be used during connections to animate a synoptic and by default during file transfers.

"Data", "Parity" and "Stop" communication parameter values are predefined for the Local and Hayes types; these values correspond to the parameters of Schneider Electric RTUs communicating with KERWIN via the telephone network (HAYES) or via the local or LAN terminal port (LOCAL) under the Napbus and Modbus 2 protocols.

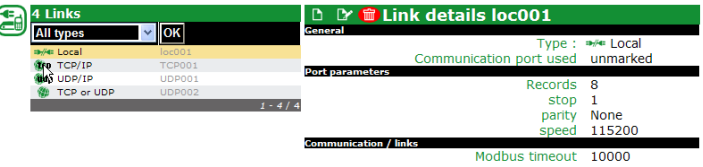


8.2.2 The list/detail page

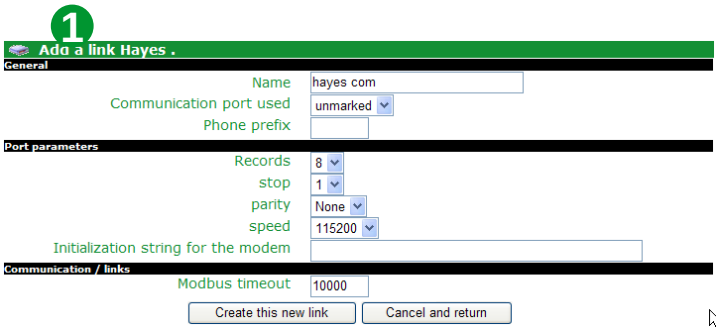
The links page displays in the same view the list and details of the selected link.

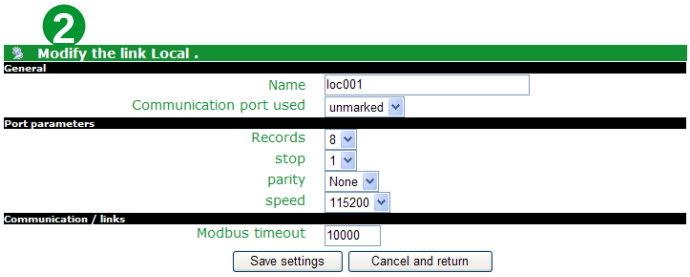
List:
A type filter (Hayes, local, TCP or UDP-PPP, TCP/IP or UDP/IP) is available on the list.

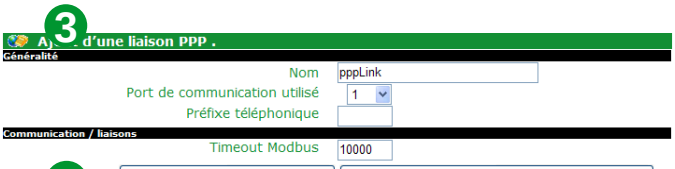
Detail:
The detail page displays:
- General: the type of link, the port used (for the "local", "Hayes" and "ppp" types) and the telephone prefix (for the "Hayes" and "ppp" types).
- Port parameter (for the "local" and "Hayes" types): character transmission format (number of data and stop bits, parity), communication speed, etc.
- Modbus timeout: Maximum response waiting time

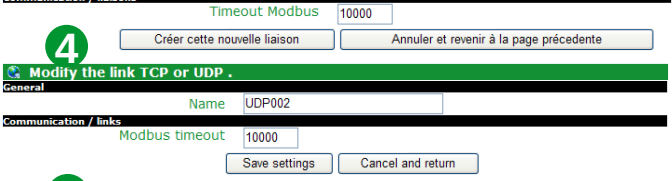


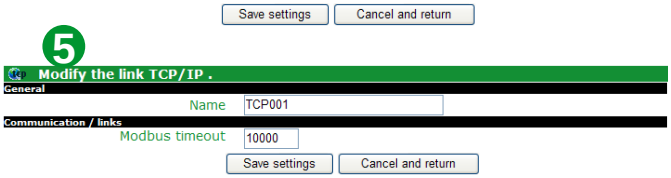
Editing:
The editing possibilities on the links are:
- Addition: When creation of a link is requested, a pop-up appears, prompting us to enter the name and the type of link to be created.
- Change.
- Deletion: Protected by a request for confirmation.

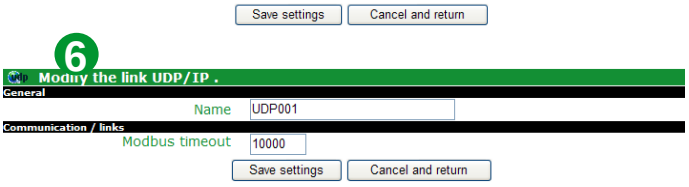












8.2.3 Edit page

Name: Link identification label (free definition)

Type: Choice from the list at creation: Hayes, Local, PPP, TCP or UDP, TCP/IP, UDP/IP.

1. Hayes refers to a PSTN modem installed on a PC slot (internal) or connected to one of the serial ports (external).
2. Local refers to a direct wired link with a serial port of the PC or a serial card.
3. PPP refers to a point-to-point type connection. Connection is delegated to the RAS system of Windows. An RAS input must therefore have first been associated with a KERWIN port.
4. TCP and UDP refer to communication via the IP network (in TCP or UDP). No longer use this type of link. It is kept for reasons of compatibility with the previous versions of Kerwin.
5. TCP/IP refers to communication via the IP network in TCP.
6. UDP/IP refers to communication via the IP network in UDP.

Speed: Choice from the list, 300 / 600 / 1200 / 2400 / 4800 / 9600 / 19200 / 38400 / 57600 / 115200.
For communication with a TBC RTU, choose:

- 1200 baud if communication takes place via the telephone network (V23 mode).
- 4800 baud if communication takes place via the RTU port.
- The speed configured on the TBC ("Modbus slave" section) if communication takes place via the local area network.

For communication with a Phenix / Flowtel / iRio, XLRIO [Xflow] RTU, choose:

- 19200 baud if communication takes place via the telephone network.
- 115200 baud if communication takes place via the LAN port.

Data, Parity, Stop: Character format.

- Number of data bits: 7 or 8.
- Parity: Odd, even or no.
- Number of stop bits: 1 or 2.

For Schneider Electric RTUs, choose 8 data bits, no parity and 1 stop bit.

Initialization chain: Modem initialization command. This depends on the brand and type of modem used. Refer to the manual for your modem.

Prefix: Prefix for access to the public telephone network when the modem line is connected to a private automatic switching unit.

Modbus timeout: Value to be entered in milliseconds. Maximum response waiting time before going to error. This value depends on the communication speed of your RTU and the type of link.
For communication with a TBC RTU, enter 8000 ms.
For communication with a Phenix / Flowtel, iRIO, XLRIO [Xflow] RTU, enter 2000 ms.

With each type of link are associated various parameters:

8.2.3.1 Hayes

Configuration of the telephone prefix, port characteristics and modem initialization chain.

8.2.3.2 Local

Configuration of only the port characteristics.

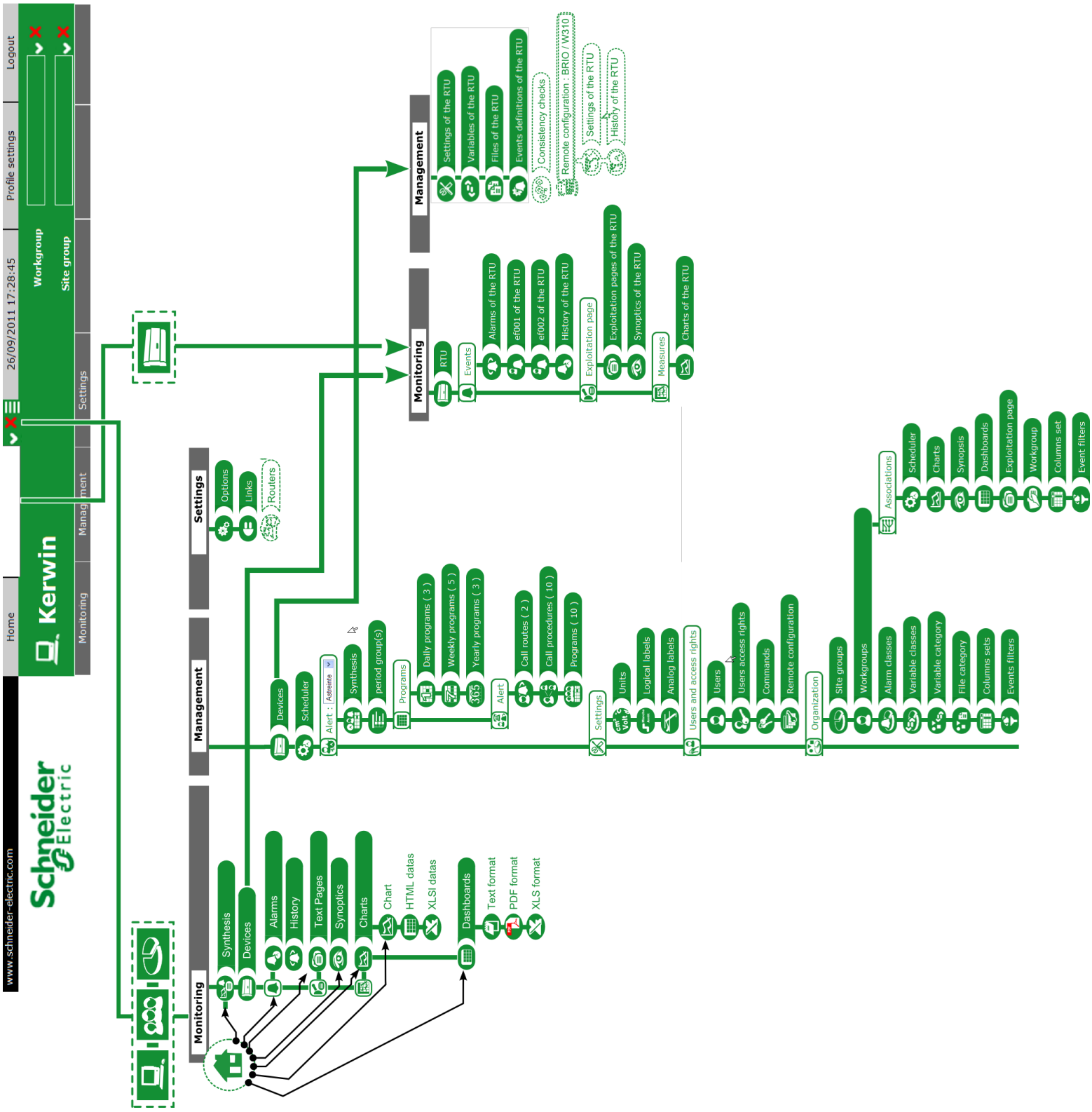
8.2.3.3 PPP

Configuration of port characteristics and possibility of adding a prefix.

8.2.3.4 TCP or UDP, TCP/IP and UDP/IP

No parameters setup other than the timeout, since the link takes place via the Net ports.

Appendix B Site map



Personal notes

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As standards, specifications and designs change from time to time, always ask for confirmation of the information given in this publication.

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